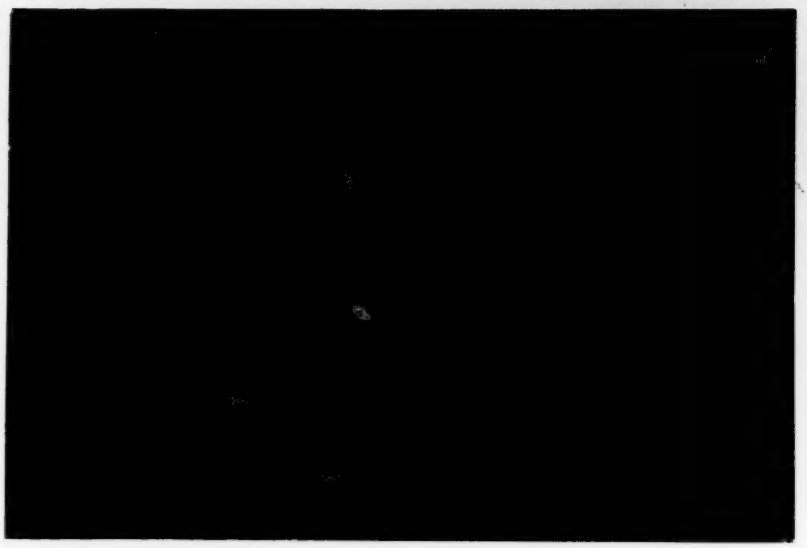
01475-2

SURVEYS OF CONSUMERS



Institute for Social Research

SURVEYS OF CONSUMERS

MARCH 1990

The March 1990 survey was the 260th in a series of Surveys of Consumers conducted by the Survey Research Center at The University of Michigan. Initiated in 1946, these periodic surveys provide regular assessments of consumer attitudes and expectations, and are used to evaluate economic trends and prospects. The surveys are designed to explore why changes in consumer attitudes and expectations occur, and how these changes influence consumer spending and saving decisions.

All surveys are subject to sampling error because not all members of the population are interviewed. Most results for the total sample will differ by no more than 5 percentage points in either direction from what would have been obtained by using the same methods on the entire population. See the back of this book for sampling error information.

While every effort is made to accurately measure consumer attitudes and expectations, factors other than sampling may also affect the accuracy of these (and other) findings. These factors may include effects of the question wording, the ability of respondents to articulate answers and opinions, refusal to participate in the survey, and incomplete coverage of the population. There are no standard measures of these effects, but their presence should be acknowledged when using these and all other survey data. While measurement effects are present in all surveys, a noted advantage of time-series data is that the non-sampling influences remain relatively constant across samples.

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TABLE OF CONTENTS

TABLE	TITLE
1.	The Index of Consumer Sentiment
2.	Index of Consumer Sentiment within Region and Age Subgroups
3.	Components of the Index of Consumer Sentiment
4.	Current Financial Situation Compared to a Year Ago
5.	Selected Reasons for Opinions About Personal Financial Situation
6.	Expected Change in Financial Situation
7.	Trend in Personal Financial Situation
8.	Expected Family Income Change During the Next 12 Months
9.	Expected Change in Real Family Income
10.	News Heard of Recent Changes in Business Conditions
11.	Selected Items of News Heard of Recent Changes in Business Conditions
12.	Current Business Conditions Compared to a Year Ago
13.	Expected Change in Business Conditions in a Year
14.	Trend in Past and Expected Changes in Business Conditions
15.	Business Conditions Expected During the Next 12 Months
16.	Business Conditions Expected During the Next 5 Years
17.	Expected Change in Unemployment
18.	Expected Change in Interest Rates
19.	Expected Change in Prices During the Next 12 Months
20.	Opinions About the Government's Economic Policy
21.	Buying Conditions for Large Household Goods
22.	Selected Reasons About Buying Conditions for Large Household Goods
23.	Buying Conditions for Houses
24.	Selected Reasons for Opinions About Buying Conditions for Houses
25.	Buying Conditions for Cars
26.	Selected Reasons for Opinions About Buying Conditions for Cars

CHART 1 - RECENT CHANGES
THE INDEX OF CONSUMER SENTIMENT

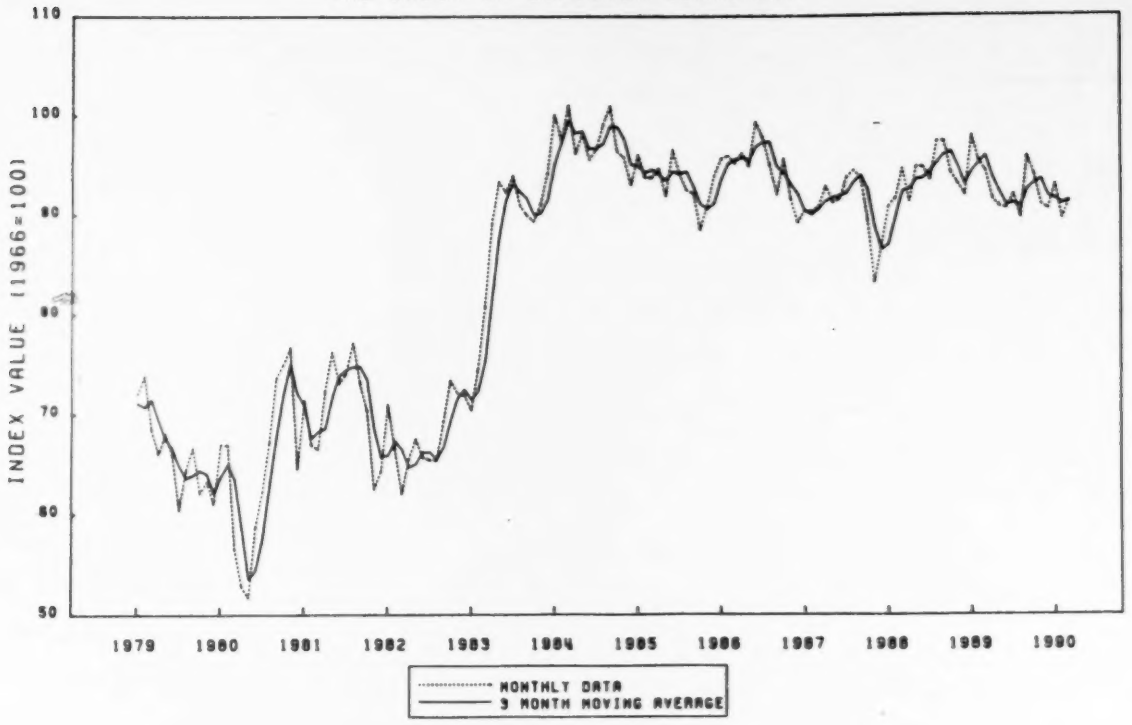


CHART 1 - HISTORICAL SERIES
THE INDEX OF CONSUMER SENTIMENT

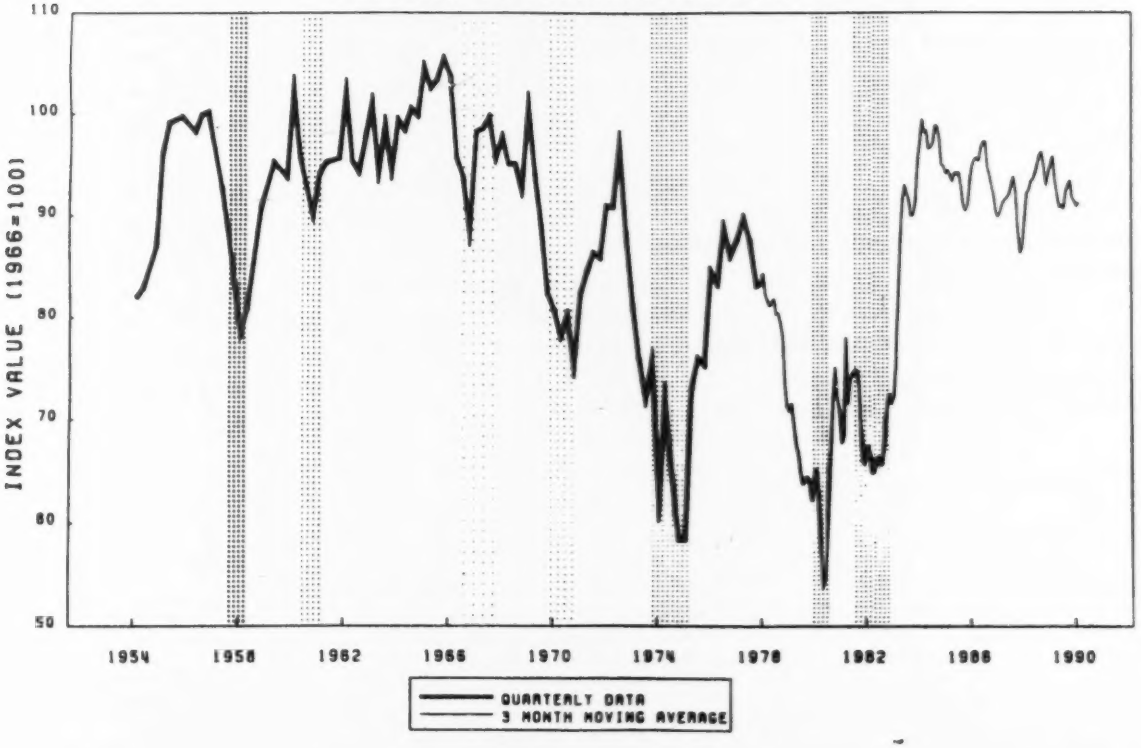


TABLE 1

THE INDEX OF CONSUMER SENTIMENT

DATE OF SURVEY	All families	Families with incomes over $30,000	Families with incomes over $40,000
March 1987	90.8	97.8	96.1
April 1987	92.8	98.5	103.1
May 1987	91.1	97.7	99.2
June 1987	91.5	102.9	102.9
July 1987	93.7	102.5	104.0
August 1987	94.4	104.4	109.1
September 1987	93.6	100.6	104.3
October 1987	89.3	99.9	101.8
November 1987	83.1	87.7	90.5
December 1987	86.8	94.5	96.1
January 1988	90.8	99.0	99.9
February 1988	91.6	98.1	100.8
March 1988	94.6	103.7	104.6
April 1988	91.2	99.1	99.6
May 1988	94.8	106.6	108.3
June 1988	94.7	102.3	102.7
July 1988	93.4	100.5	103.9
August 1988	97.4	105.1	104.2
September 1988	97.3	102.8	105.4
October 1988	94.1	103.0	103.7
November 1988	93.0	102.0	101.0
December 1988	91.9	97.0	99.5
January 1989	97.9	108.4	106.8
February 1989	95.4	104.6	109.6
March 1989	94.3	98.6	100.0
April 1989	91.5	99.1	99.8
May 1989	90.7	100.6	100.3
June 1989	90.6	95.2	95.4
July 1989	92.0	103.2	101.9
August 1989	89.6	93.5	93.1
September 1989	95.8	104.1	103.0
October 1989	93.9	100.2	103.6
November 1989	90.9	99.4	100.5
December 1989	90.5	100.0	104.1
January 1990	93.0	99.9	103.2
February 1990	89.5	93.9	91.8
March 1990	91.3	98.4	98.8

CHART 2A - HISTORICAL SERIES

INDEX OF CONSUMER SENTIMENT WITHIN REGION SUBGROUPS

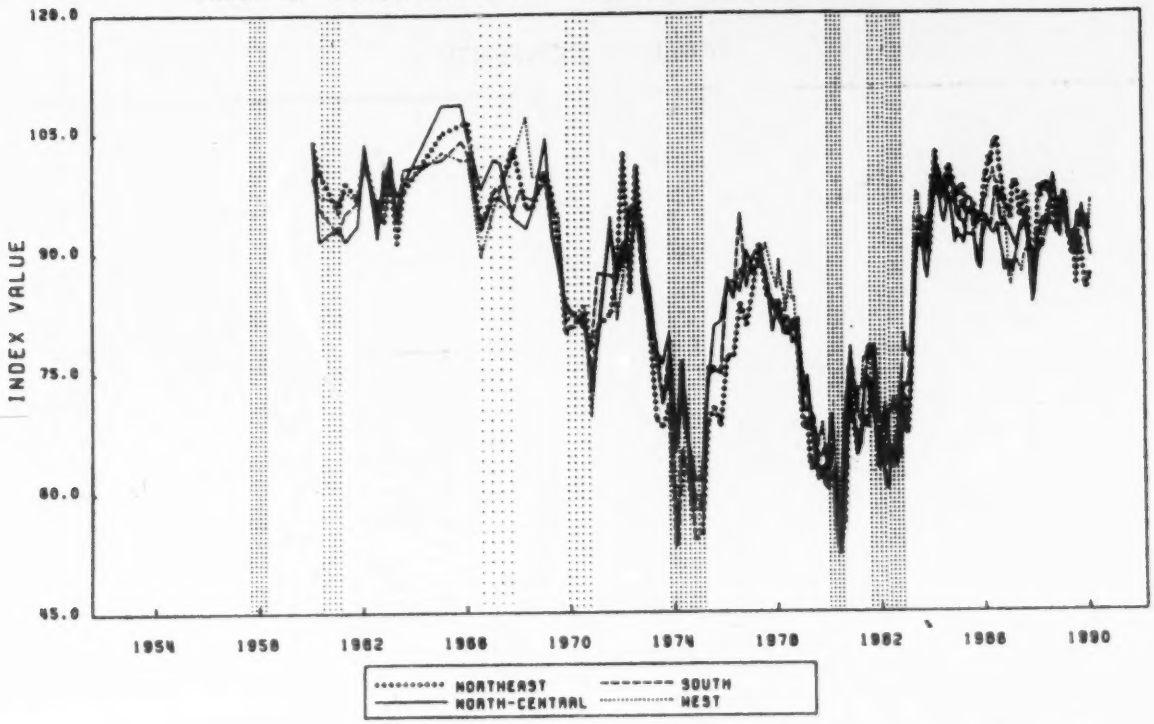


CHART 2B - HISTORICAL SERIES

INDEX OF CONSUMER SENTIMENT WITHIN AGE SUBGROUPS

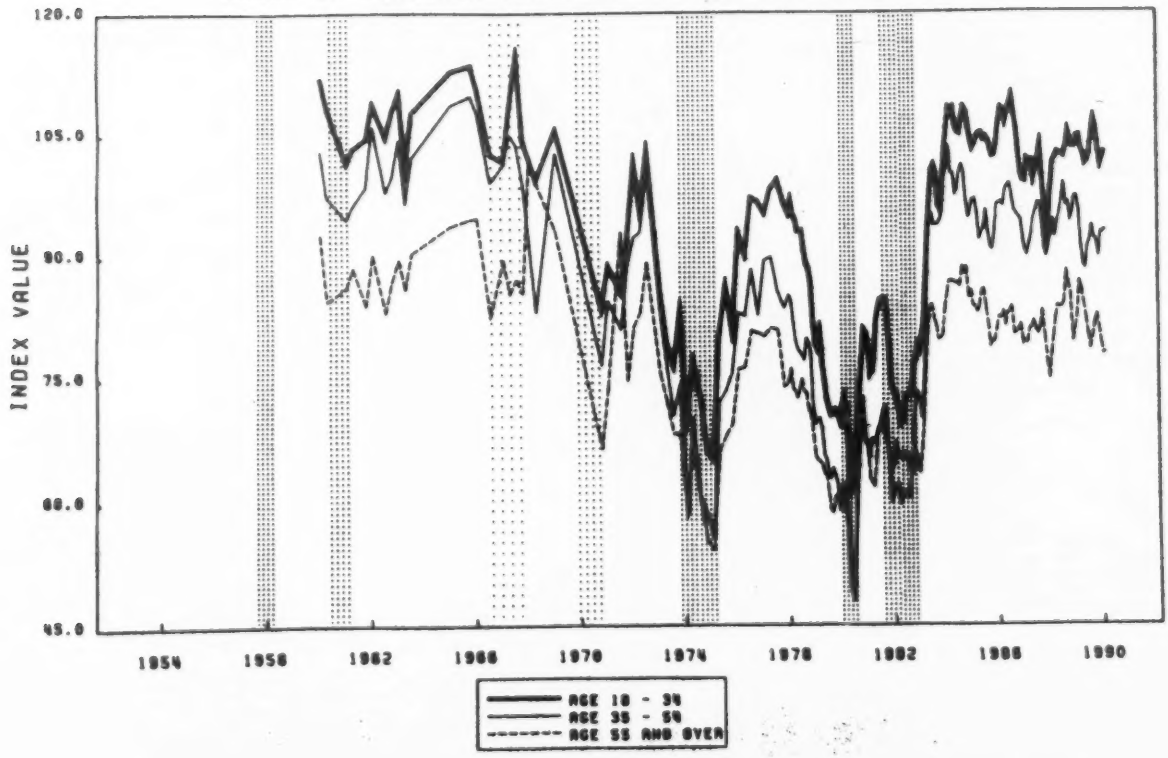


TABLE 2

INDEX OF CONSUMER SENTIMENT WITHIN REGION AND AGE SUBGROUPS

DATE OF SURVEY		CENSUS REGION				AGE OF RESPONDENT		
		North East	North Central	South	West	18-34	35-54	55+
March	1987	104.6	86.3	87.5	91.2	106.4	89.3	77.7
April	1987	99.4	91.7	93.7	87.2	99.0	95.1	83.5
May	1987	91.3	92.9	92.1	87.1	99.5	92.8	82.1
June	1987	92.5	92.2	91.5	89.7	99.0	91.5	80.0
July	1987	100.1	95.7	93.8	85.2	103.0	97.8	80.2
August	1987	99.0	91.0	95.2	93.2	103.3	95.8	80.8
September	1987	92.2	94.7	94.9	91.5	104.1	95.4	82.6
October	1987	93.8	87.2	88.3	89.1	92.0	89.9	86.2
November	1987	83.9	79.6	87.9	79.4	91.7	86.6	70.8
December	1987	83.4	83.6	90.4	89.2	94.1	92.9	73.6
January	1988	99.8	91.3	87.6	88.5	98.3	93.6	80.1
February	1988	93.7	92.1	92.8	86.3	102.5	90.3	79.9
March	1988	101.2	92.9	91.6	95.3	103.5	98.9	80.0
April	1988	94.9	93.9	88.6	89.0	100.0	87.5	86.6
May	1988	99.1	95.5	91.1	97.3	104.2	95.4	84.7
June	1988	98.1	91.2	95.9	95.2	103.1	102.0	79.5
July	1988	98.3	92.0	91.8	94.0	99.6	93.0	86.6
August	1988	95.7	100.9	94.4	98.5	103.6	101.7	86.3
September	1988	95.2	101.9	93.3	97.6	106.1	93.3	91.4
October	1988	91.8	96.1	92.9	96.6	105.8	94.6	82.0
November	1988	95.8	90.6	90.5	98.9	100.4	94.3	82.2
December	1988	90.8	90.2	96.1	88.0	103.7	97.1	73.9
January	1989	96.9	94.2	99.9	102.2	105.8	100.3	86.7
February	1989	103.5	99.2	88.8	93.6	104.3	94.2	86.7
March	1989	91.5	95.8	96.1	92.2	103.9	91.8	87.0
April	1989	83.9	94.6	93.4	90.3	101.0	87.5	83.8
May	1989	99.9	86.7	87.3	94.3	102.2	86.9	81.9
June	1989	84.7	91.2	94.4	89.8	100.0	90.4	81.1
July	1989	87.2	91.9	95.6	91.8	101.9	95.8	78.0
August	1989	85.2	93.6	85.0	95.7	105.7	88.9	76.1
September	1989	97.1	98.8	94.0	92.7	107.1	96.2	84.9
October	1989	92.1	89.6	99.5	92.6	107.3	90.5	83.9
November	1989	77.5	98.7	87.2	99.4	102.2	88.6	79.3
December	1989	87.1	89.2	93.5	90.7	99.3	90.3	80.4
January	1990	91.0	94.2	93.8	92.2	101.4	99.5	78.3
February	1990	82.0	88.2	91.5	95.1	104.9	88.2	74.7
March	1990	89.5	85.5	92.5	101.5	101.7	91.4	81.1

CHART 3 - RECENT CHANGES
CURRENT AND EXPECTED COMPONENTS

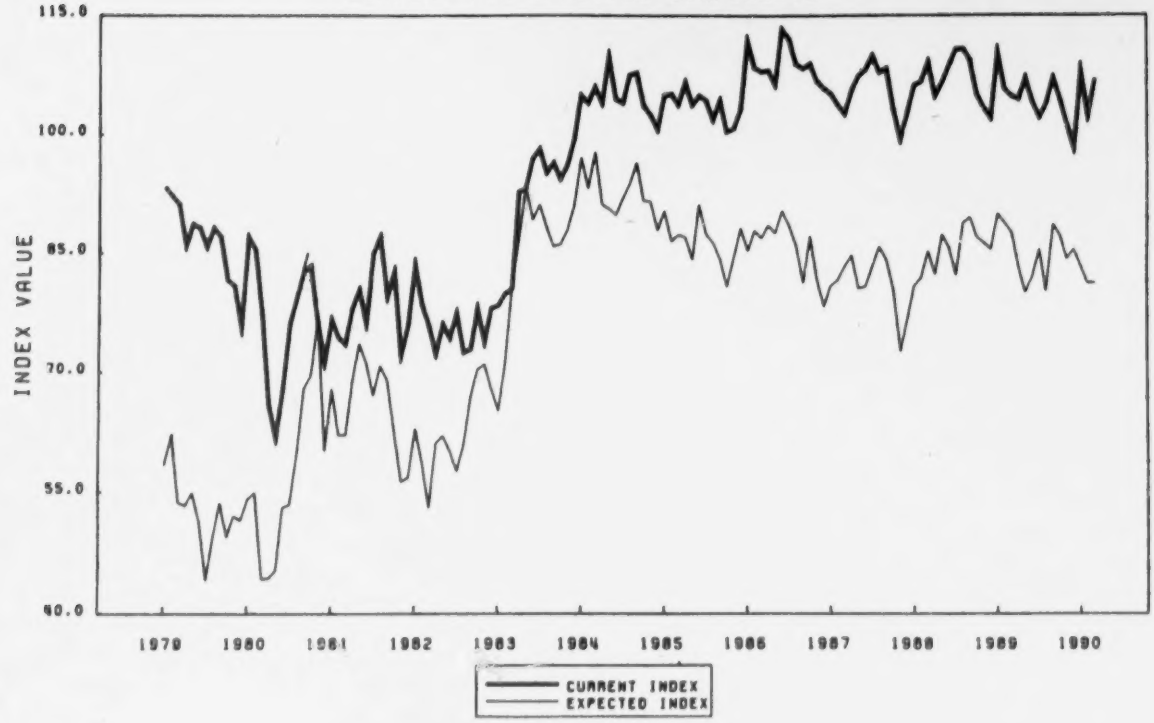


CHART 3 - HISTORICAL SERIES
CURRENT AND EXPECTED COMPONENTS

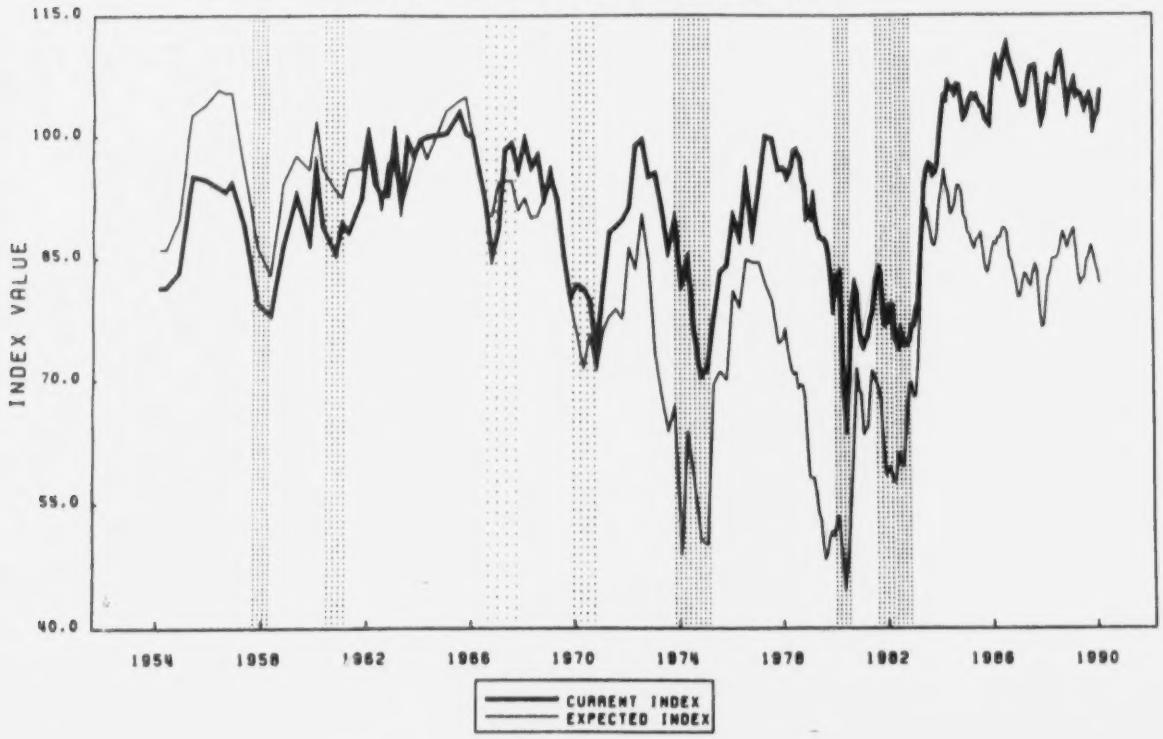


TABLE 3
COMPONENTS OF THE INDEX OF CONSUMER SENTIMENT

DATE OF SURVEY	INDEX COMPONENTS +						
	Personal finances		Business conditions				
	Current	Expected	12 months	5 years	Buying conds.	Current Index	Expected Index
	(1)	(2)	(3)	(4)	(5)	(1,5)	(2,3,4)
March 1987	114	122	121	92	152	102.5	83.3
April 1987	116	127	116	97	158	105.5	84.7
May 1987	117	121	114	89	161	107.4	80.6
June 1987	120	122	113	89	161	108.1	80.8
July 1987	123	123	118	94	162	109.9	83.3
August 1987	122	127	125	93	157	107.8	85.8
September 1987	119	124	122	92	162	108.3	84.2
October 1987	118	128	105	90	149	103.1	80.4
November 1987	115	118	93	80	142	99.3	72.7
December 1987	119	120	98	89	147	102.7	76.7
January 1988	122	131	110	84	154	106.2	80.9
February 1988	122	130	108	90	155	106.6	81.9
March 1988	127	133	114	96	156	109.1	85.2
April 1988	117	125	117	89	154	104.8	82.4
May 1988	111	127	125	98	165	106.5	87.3
June 1988	119	129	121	95	163	108.6	85.7
July 1988	120	128	106	96	167	110.7	82.3
August 1988	127	127	125	105	160	110.8	88.8
September 1988	127	133	125	102	157	109.4	89.5
October 1988	114	124	129	97	158	105.0	87.0
November 1988	112	128	122	97	156	103.3	86.3
December 1988	114	127	119	98	150	102.0	85.5
January 1989	121	131	128	103	165	110.3	89.9
February 1989	120	130	128	99	154	105.7	88.8
March 1989	116	131	123	98	156	104.8	87.6
April 1989	113	130	113	91	158	104.4	83.2
May 1989	121	125	107	89	157	107.1	80.1
June 1989	115	123	115	90	155	104.1	82.0
July 1989	112	123	124	96	152	102.1	85.5
August 1989	114	126	109	88	156	103.9	80.3
September 1989	117	129	127	101	161	107.1	88.6
October 1989	114	134	124	93	156	104.4	87.2
November 1989	116	130	116	92	146	101.2	84.3
December 1989	115	129	115	99	140	98.2	85.5
January 1990	116	124	119	92	164	108.0	83.4
February 1990	108	126	111	90	157	102.3	81.3
March 1990	117	125	108	93	160	106.9	81.3

(1) See Table 4.
(2) See Table 6.
(3) See Table 15.
(4) See Table 16.
(5) See Table 21.

CHART 4 - RECENT CHANGES

CURRENT FINANCIAL SITUATION COMPARED WITH A YEAR AGO

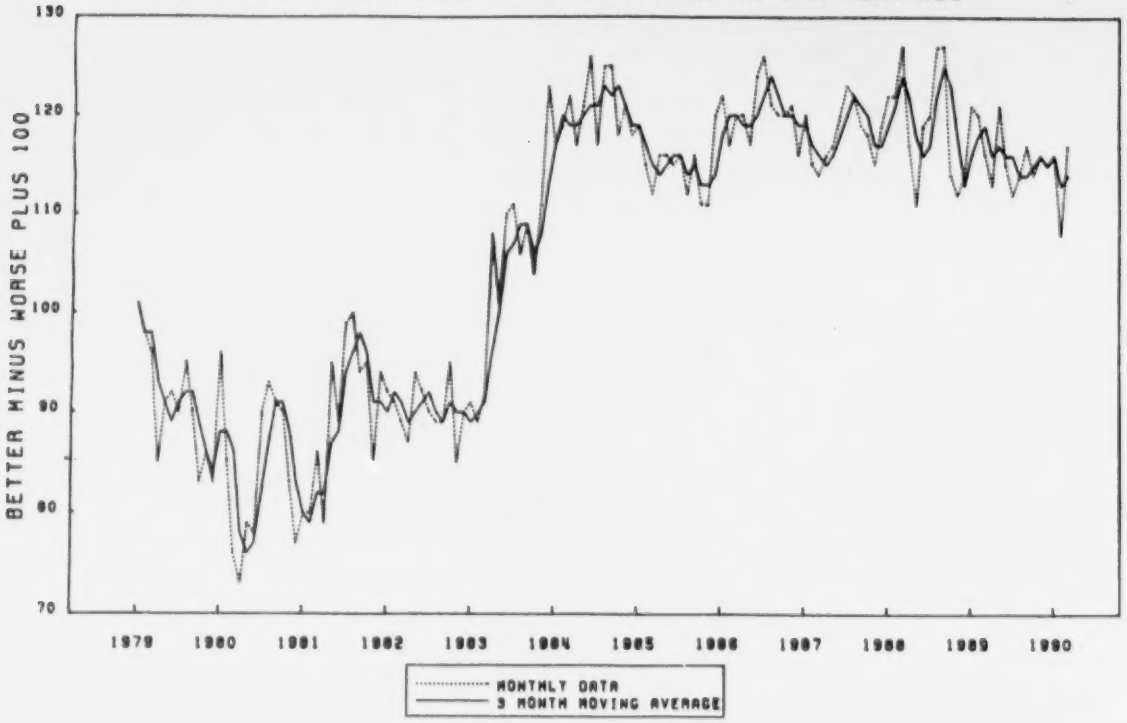


CHART 4 - HISTORICAL SERIES

CURRENT FINANCIAL SITUATION COMPARED WITH A YEAR AGO

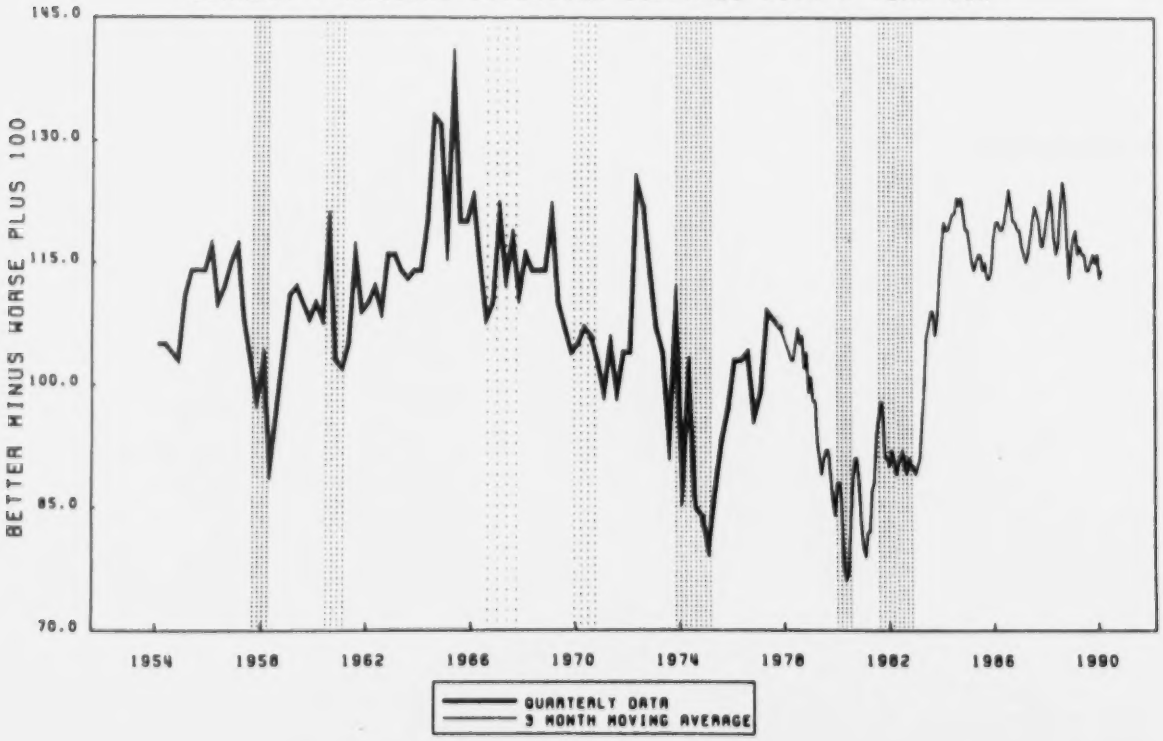


TABLE 4

CURRENT FINANCIAL SITUATION COMPARED TO A YEAR AGO

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
BETTER OFF	42%	42%	45%	38%	41%	41%	42%	42%	42%	41%	43%	38%	43%
SAME	32	29	31	38	30	32	32	30	32	32	30	32	30
WORSE OFF	26	29	24	23	29	27	25	28	26	26	27	30	26
DK,NA	*	*	*	1	*	*	1	*	*	1	*	*	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "We are interested in how people are getting along financially these days. Would you say that you (and your family living there) are better off or worse off financially than you were a year ago?"

* : Less than half of one percent.

CHART 5A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT PERSONAL FINANCIAL SITUATION

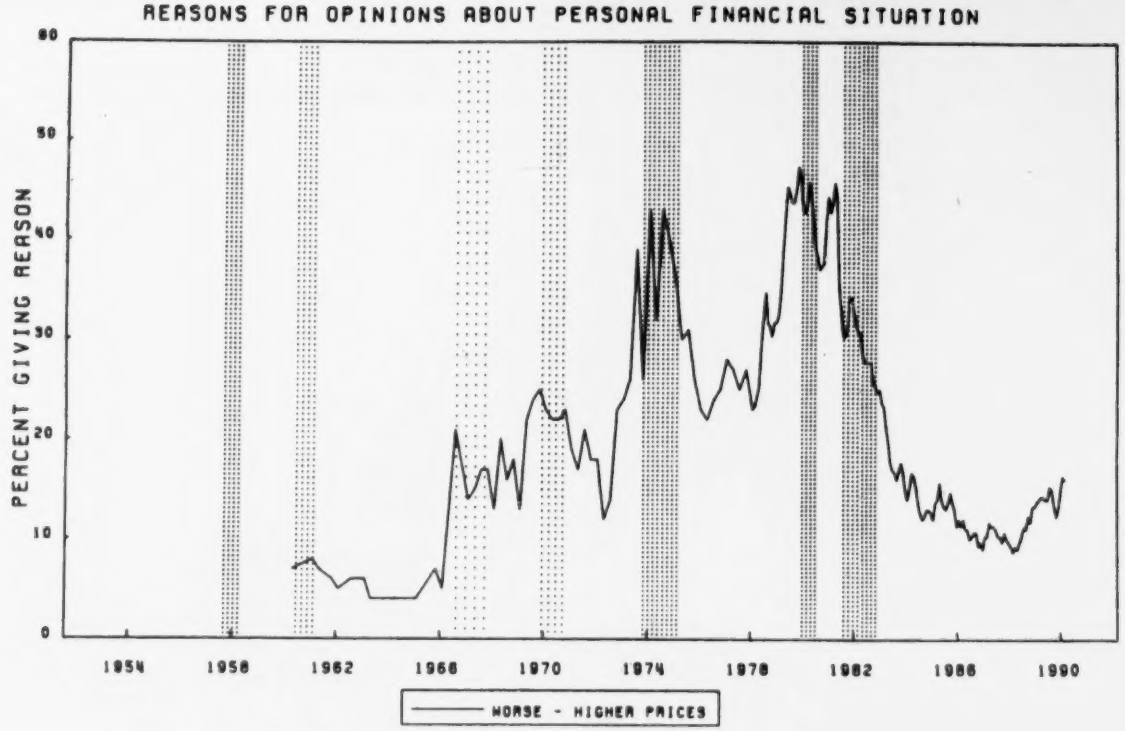


CHART 5B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT PERSONAL FINANCIAL SITUATION

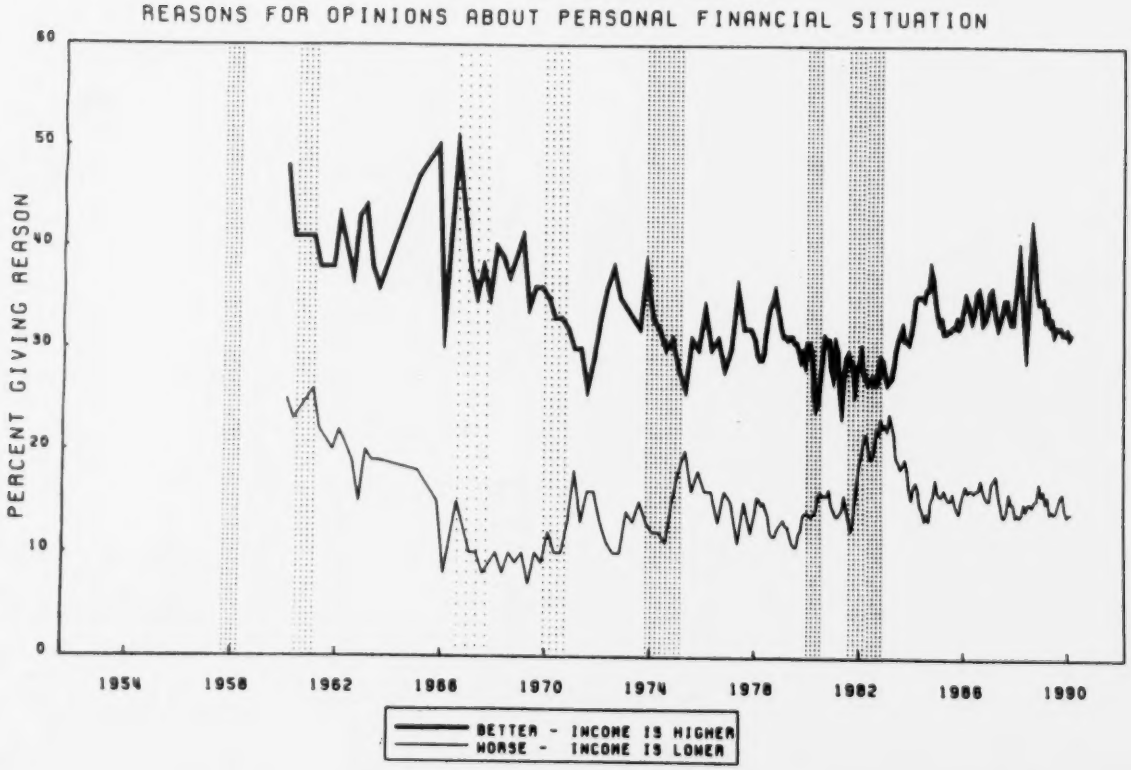


TABLE 5

SELECTED REASONS FOR OPINIONS ABOUT PERSONAL FINANCIAL SITUATION +

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
BETTER OFF THAN YEAR AGO:													
Income is higher	30%	36%	32%	31%	32%	34%	31%	32%	32%	31%	33%	30%	32%
WORSE OFF THAN YEAR AGO:													
Income is lower	13	16	13	14	15	14	16	17	15	11	15	16	11
Higher prices	15	16	12	14	16	16	13	11	13	16	16	17	15

Responses to the query: "Why do you say so?" following the question on Table 4.

+ : May add to more than 100% due to multiple mentions.

CHART 6 - RECENT CHANGES

EXPECTED CHANGE IN FINANCIAL SITUATION

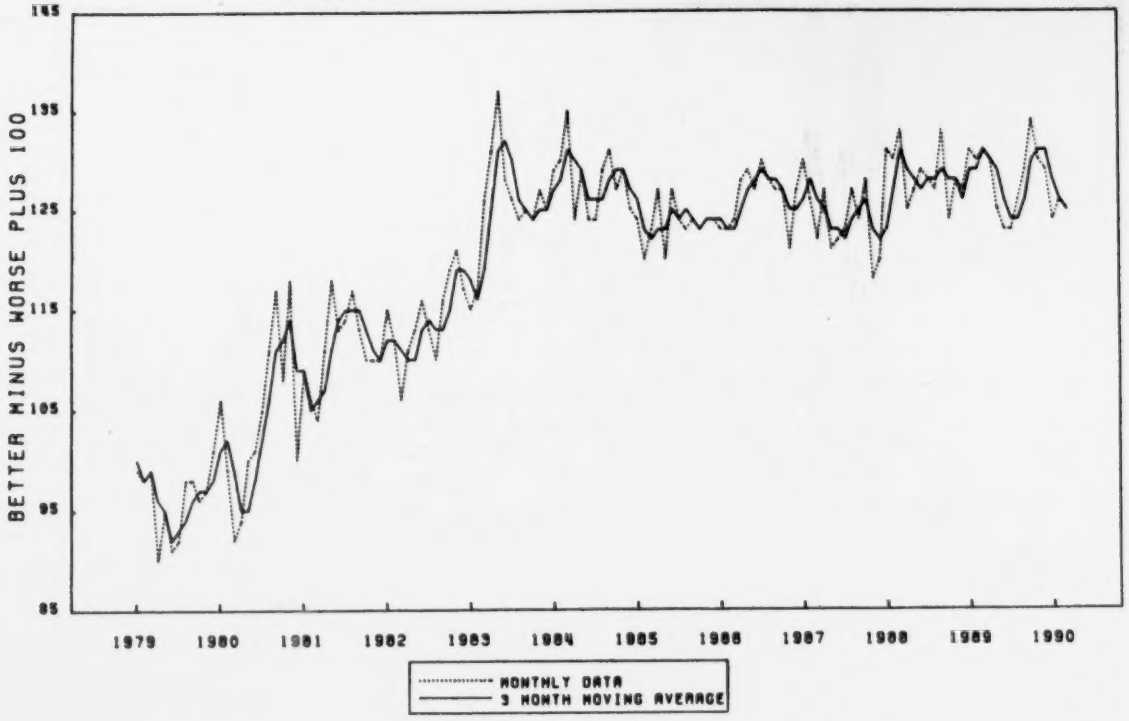


CHART 6 - HISTORICAL SERIES

EXPECTED CHANGE IN FINANCIAL SITUATION

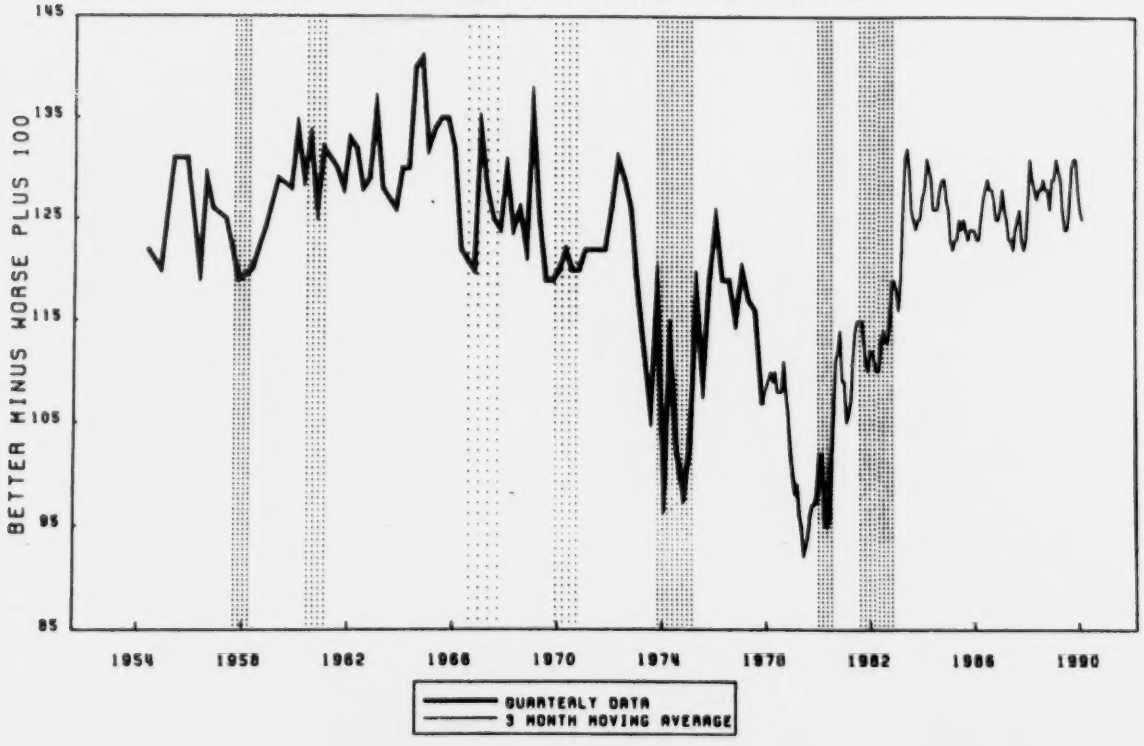


TABLE 6

EXPECTED CHANGE IN FINANCIAL SITUATION

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
BETTER OFF	40%	41%	39%	34%	35%	37%	38%	41%	40%	37%	35%	35%	37%
SAME	49	46	45	52	50	49	49	47	48	50	51	53	49
WORSE OFF	9	11	14	11	12	11	9	7	10	8	11	9	12
DK,NA	2	2	2	3	3	3	4	5	2	5	3	3	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "Now looking ahead--do you think that a year from now you (and your family living there) will be better off financially, or worse off, or just about the same as now?"

CHART 7 - RECENT CHANGES

TREND IN PERSONAL FINANCIAL SITUATION

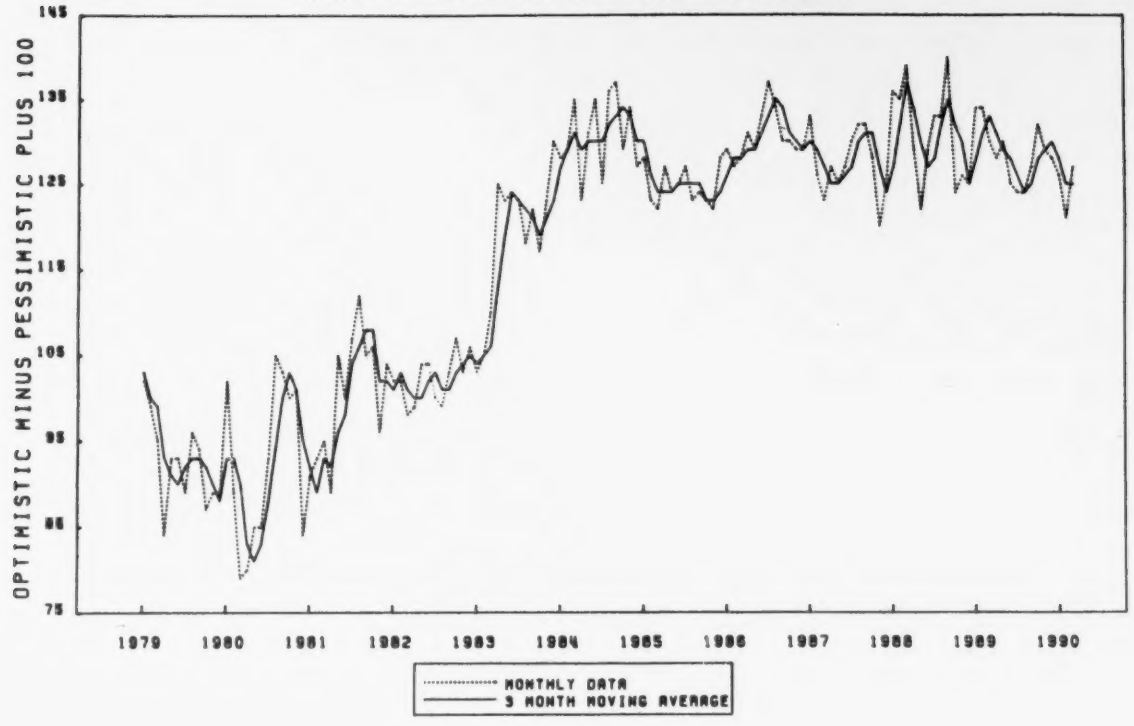


CHART 7 - HISTORICAL SERIES

TREND IN PERSONAL FINANCIAL SITUATION

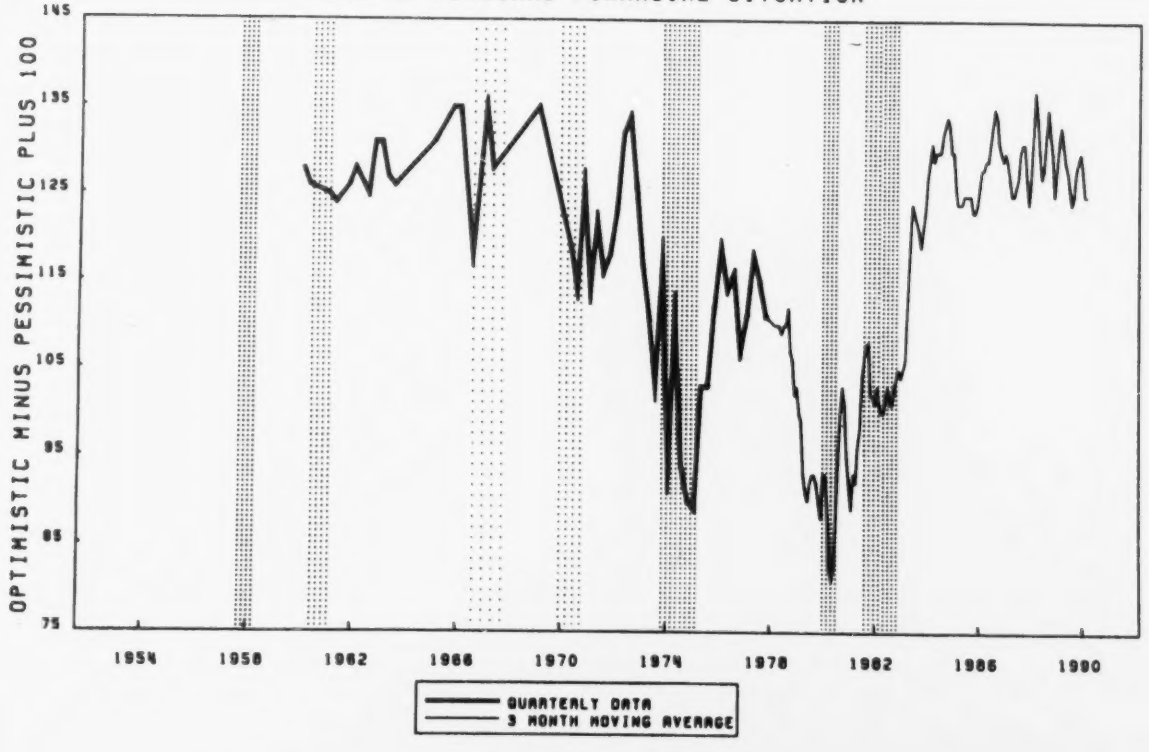


TABLE 7

TREND IN PERSONAL FINANCIAL SITUATION

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
PERSONAL FINANCIAL PROGRESS:													
Continuous increase (a)	20%	21%	21%	16%	19%	20%	24%	22%	21%	19%	20%	17%	20%
Intermittant increase (b)	29	27	31	28	28	25	24	27	26	28	28	26	28
Remain unchanged (c)	18	17	14	22	18	20	19	17	20	18	17	21	17
Intermittant decline (d)	15	13	18	15	15	16	17	12	14	16	16	17	15
Continuous decline (e)	4	7	4	4	8	5	4	5	4	3	6	5	6
Mixed change (f)	12	13	9	11	9	10	8	11	13	11	9	10	10
DK,NA	2	2	3	4	3	4	4	6	2	5	4	4	4
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

Combination of the responses to the questions on Tables 4 and 6.

Key: (a) Better off financially than a year ago/Better off a year from now
(b) Better/Same or Same/Better
(c) Same/Same
(d) Worse/Same or Same/Worse
(e) Worse/Worse
(f) Worse/Better or Better/Worse

CHART 8 - RECENT CHANGES

MEDIAN EXPECTED CHANGE IN FAMILY INCOME

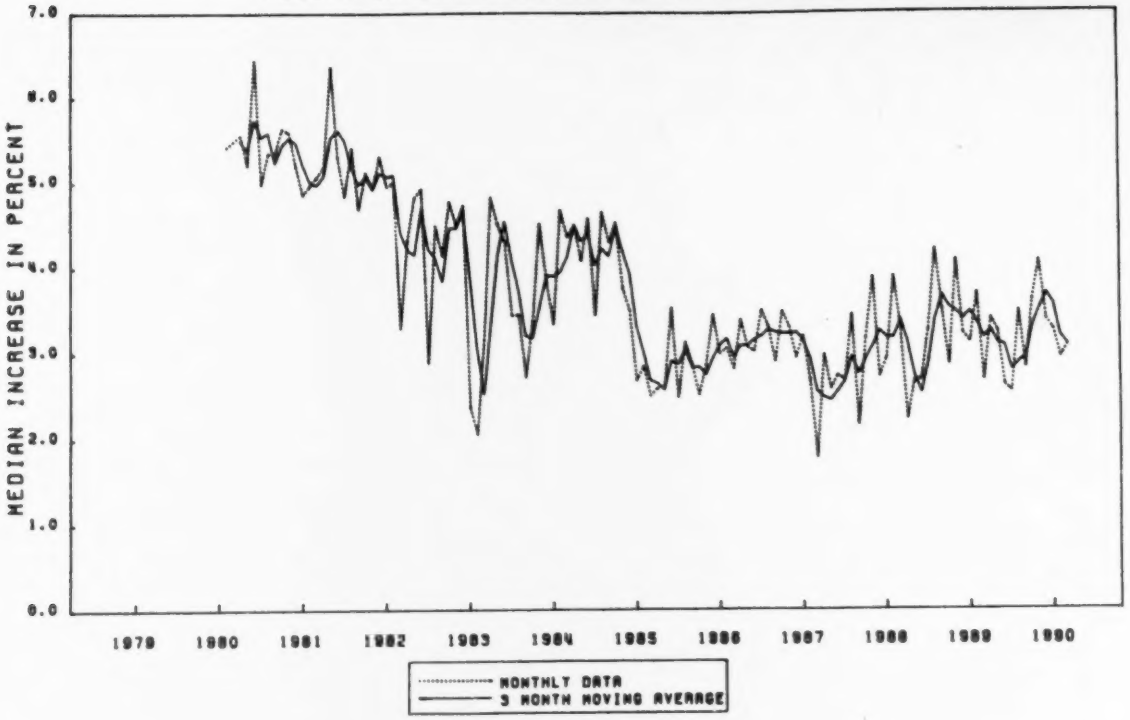


CHART 8 - HISTORICAL SERIES

MEDIAN EXPECTED CHANGE IN FAMILY INCOME

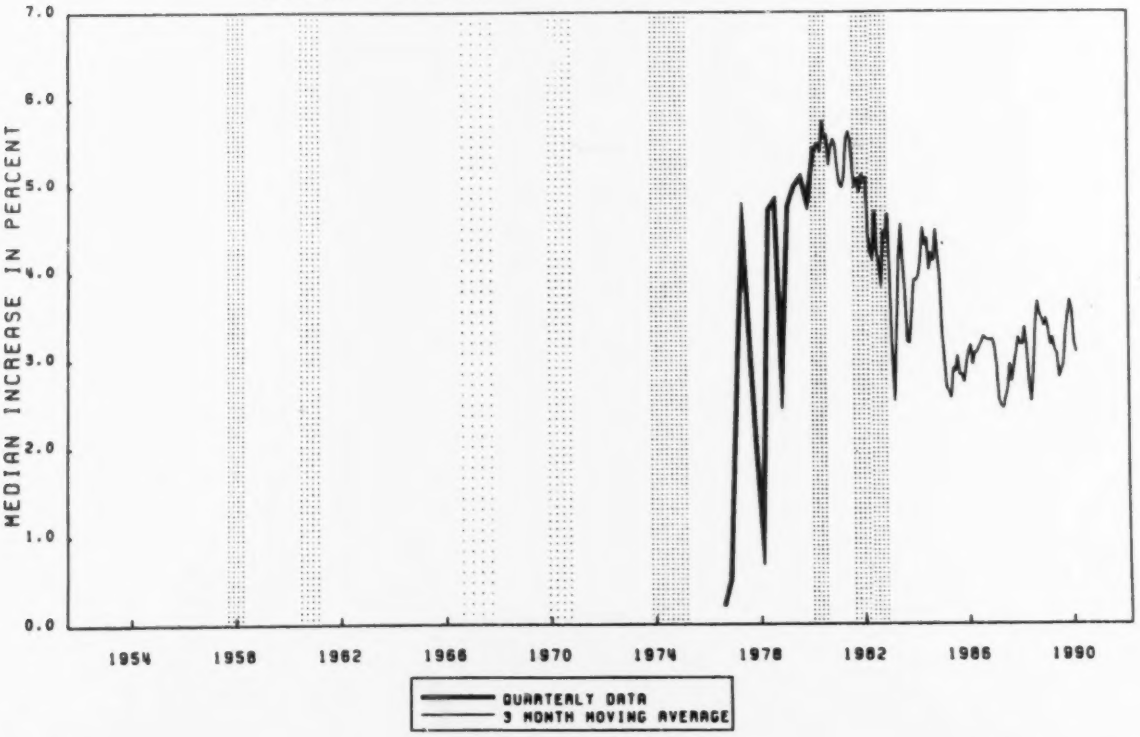


TABLE 8

EXPECTED FAMILY INCOME CHANGE DURING THE NEXT 12 MONTHS

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
EXPECT INCREASE:													
1-4%	16%	17%	16%	18%	15%	15%	16%	15%	23%	16%	18%	17%	15%
5%	10	12	9	11	9	13	10	12	13	12	13	12	9
6-9%	7	7	7	6	6	8	7	7	7	8	7	6	9
10-24%	14	15	17	14	16	17	15	14	16	13	14	15	16
25% or more	7	7	8	6	6	6	5	9	7	7	5	5	4
DK how much up	5	5	4	5	6	3	5	4	6	5	5	3	5
EXPECT SAME	27	23	26	27	31	26	25	25	19	26	25	30	28
EXPECT DOWN	14	12	12	12	10	12	15	12	9	12	11	11	13
DK,NA	*	2	1	1	1	*	2	2	*	1	2	1	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The questions were: "During the next 12 months, do you expect your (family) income to be higher or lower than during the past year?" and "By about what percent do you expect your (family) income to increase during the next 12 months?"

* : Less than half of one percent.

CHART 9 - RECENT CHANGES

INCOME OR PRICES UP MORE NEXT YEAR

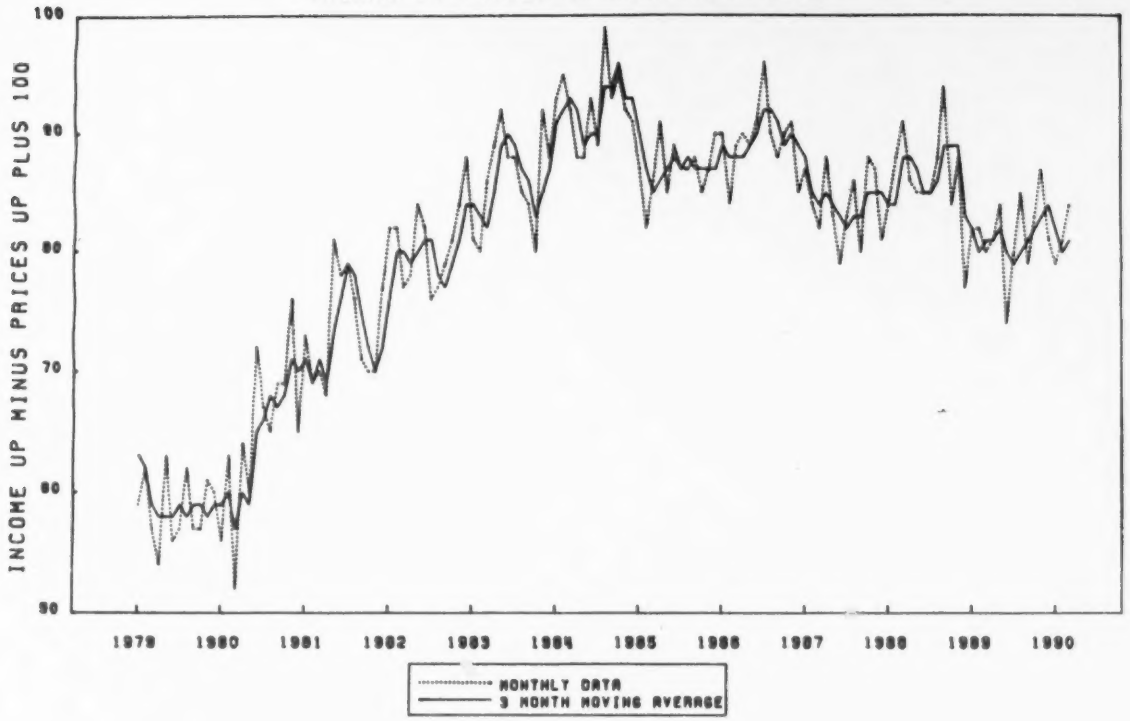


CHART 9 - HISTORICAL SERIES

INCOME OR PRICES UP MORE NEXT YEAR

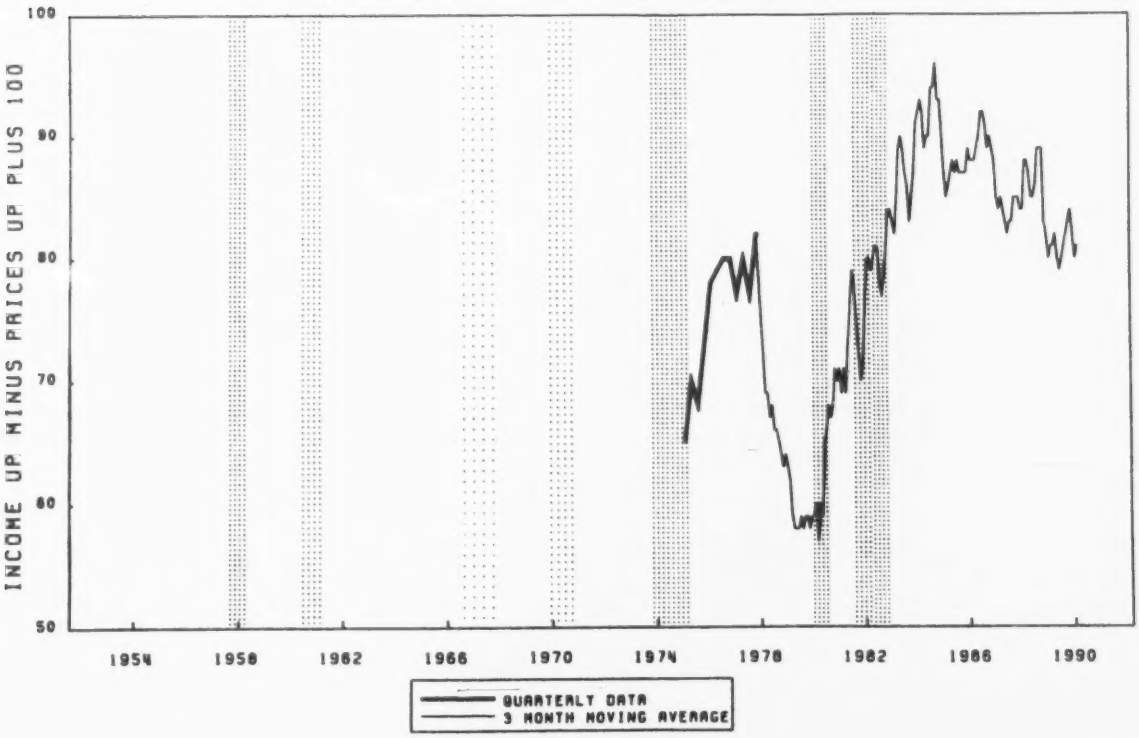


TABLE 9

EXPECTED CHANGE IN REAL FAMILY INCOME

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
INCOME UP MORE	17%	18%	22%	16%	19%	21%	19%	20%	22%	21%	17%	17%	20%
INCOME UP SAME	44	43	37	39	40	39	39	41	42	36	42	44	42
PRICES UP MORE	37	37	38	42	39	36	40	37	35	40	38	36	36
DK,NA	2	2	3	3	2	4	2	2	1	3	3	3	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "How about the next year or two--do you expect that your (family) income will go up more than prices will go up, about the same, or less than prices will go up?"

CHART 10 - RECENT CHANGES

NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS

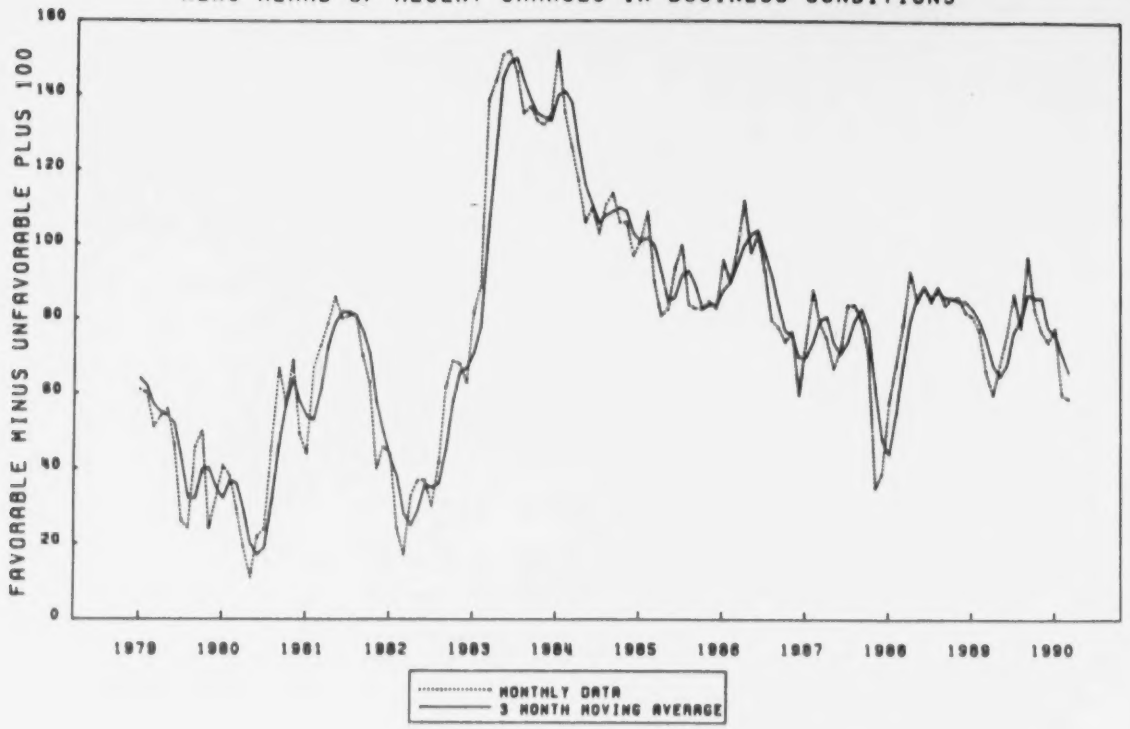


CHART 10 - HISTORICAL SERIES

NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS

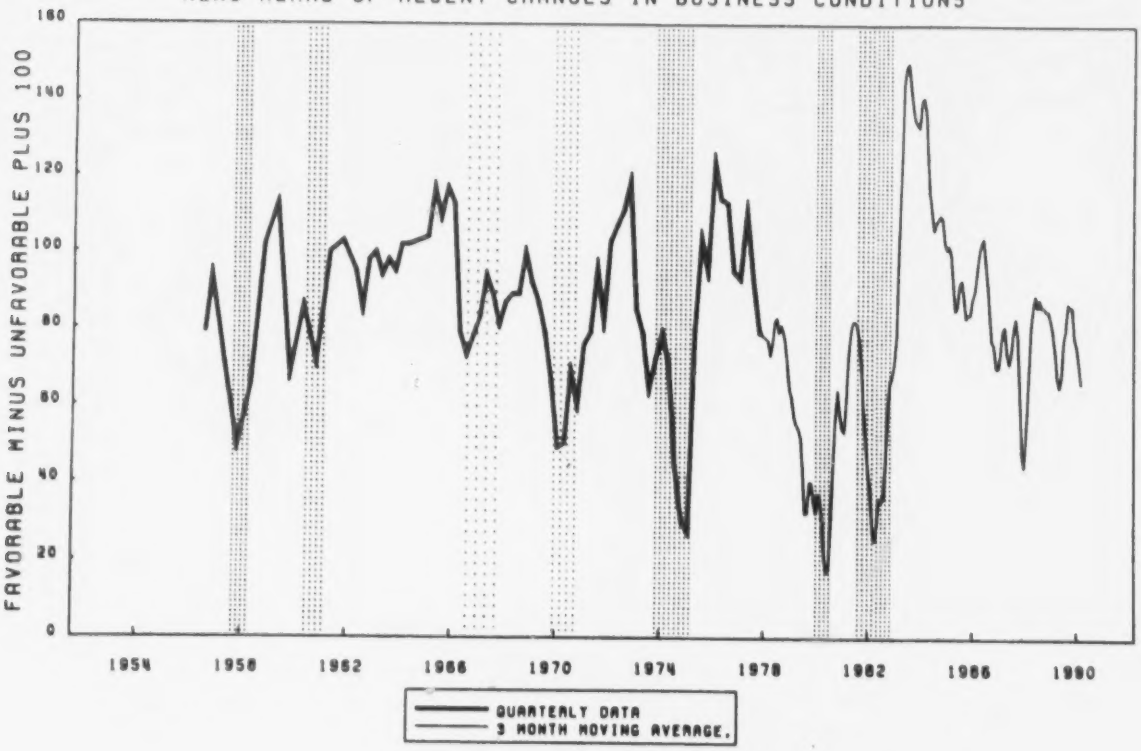


TABLE 10

NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS +

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
FAVORABLE NEWS	22%	18%	22%	23%	28%	23%	29%	24%	22%	24%	26%	20%	21%
UNFAVORABLE NEWS	56	58	54	47	41	45	32	41	45	50	48	60	62
NO MENTIONS	49	48	48	53	50	53	56	52	52	50	49	44	43

The questions were: "During the last few months, have you heard of any favorable or unfavorable changes in business conditions?" and "What did you hear?"

+ : May add to more than 100% due to multiple mentions.

CHART 11A - HISTORICAL SERIES

TYPE OF NEWS HEARD ABOUT CHANGES IN BUSINESS CONDITIONS

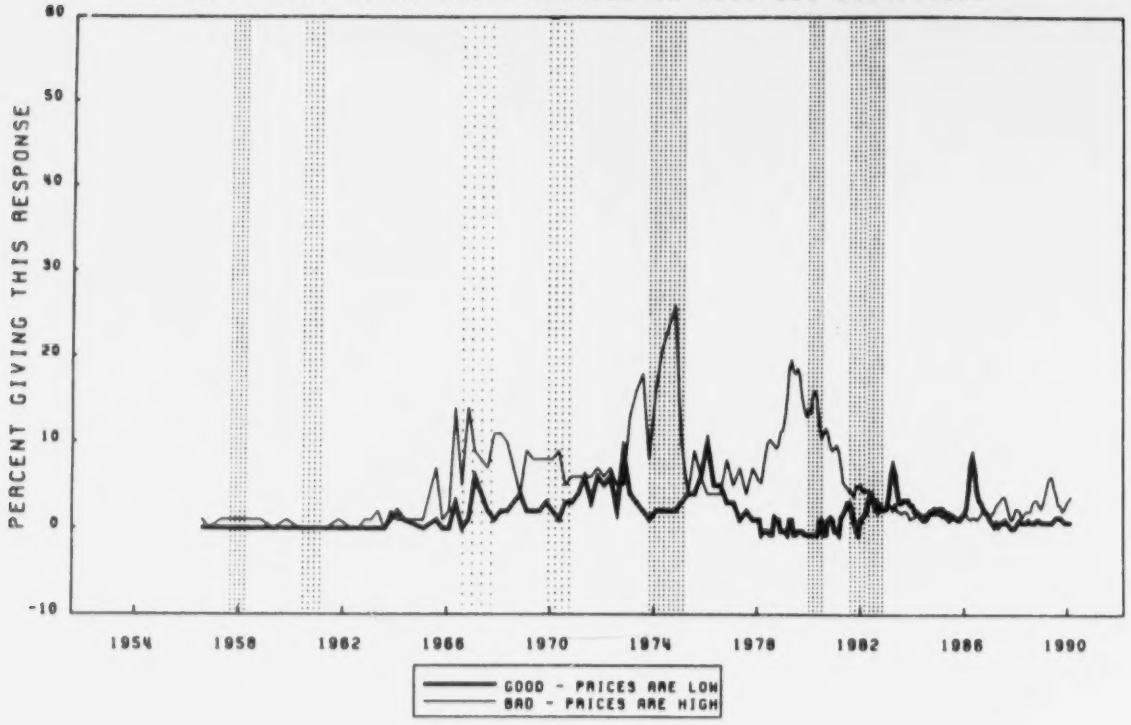


CHART 11B - HISTORICAL SERIES

TYPE OF NEWS HEARD ABOUT CHANGES IN BUSINESS CONDITIONS

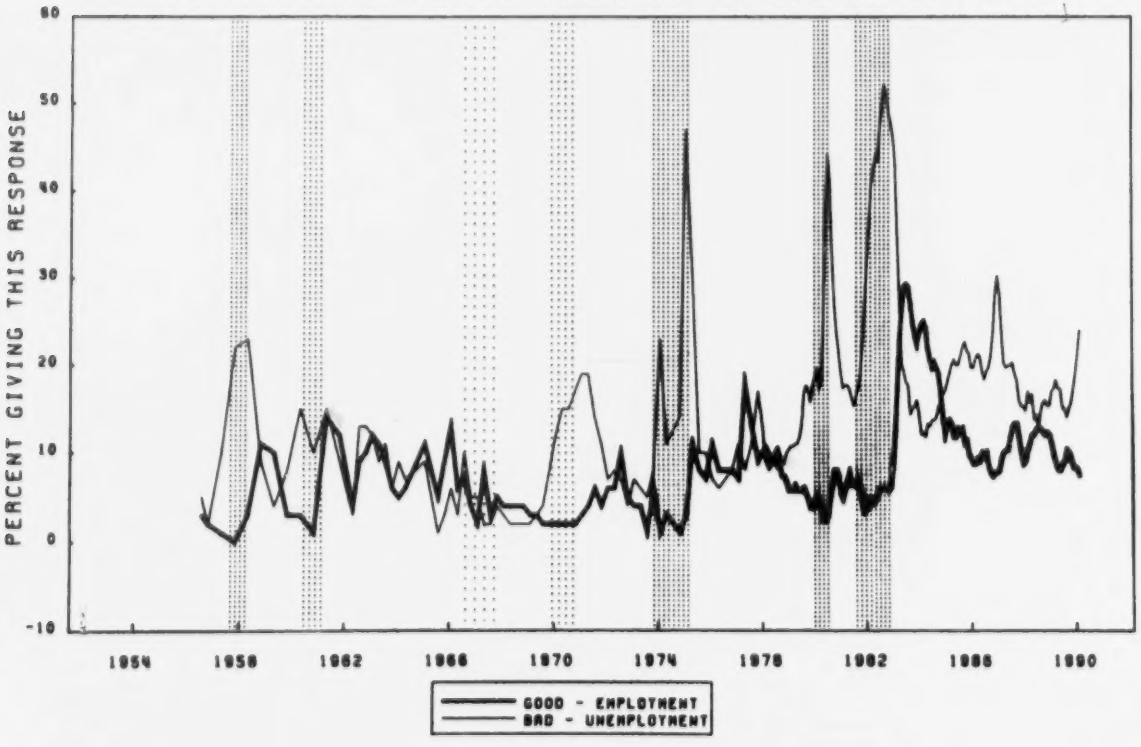


TABLE 11

SELECTED ITEMS OF NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS +

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
FAVORABLE NEWS:													
Government; elections	3%	1%	1%	1%	*	2%	2%	1%	1%	3%	1%	2%	3%
Employment	8	8	8	8	10	9	12	9	7	9	9	6	7
Higher consumer demand	1	3	2	1	2	1	1	1	2	2	1	1	2
Lower prices	1	*	1	1	1	2	1	1	1	*	1	1	*
Easier credit	1	*	1	4	6	5	4	3	3	1	6	3	1
Stock market	1	1	2	2	2	1	3	2	2	2	2	1	1
Trade deficit	1	1	1	*	1	1	1	1	1	3	2	2	2
UNFAVORABLE NEWS:													
Government; elections	5	4	4	4	5	3	4	2	3	5	3	6	6
Unemployment	17	20	15	17	13	15	14	16	17	19	21	24	27
Lower consumer demand	3	2	4	3	3	3	2	2	5	6	5	6	6
Higher prices	6	6	6	6	2	4	2	2	2	3	4	3	4
Tighter credit	10	12	10	5	3	2	1	1	1	2	1	3	3
Stock market	2	2	2	1	1	1	1	7	6	2	2	6	4
Trade deficit	3	3	2	3	5	3	2	2	2	5	2	3	4

The questions were: "During the last few months, have you heard of any favorable or unfavorable changes in business conditions?" and "What did you hear?"

+ : May add to more than 100% due to multiple mentions.
* : Less than half of one percent.

CHART 12 - RECENT CHANGES

CURRENT BUSINESS CONDITIONS COMPARED WITH A YEAR AGO

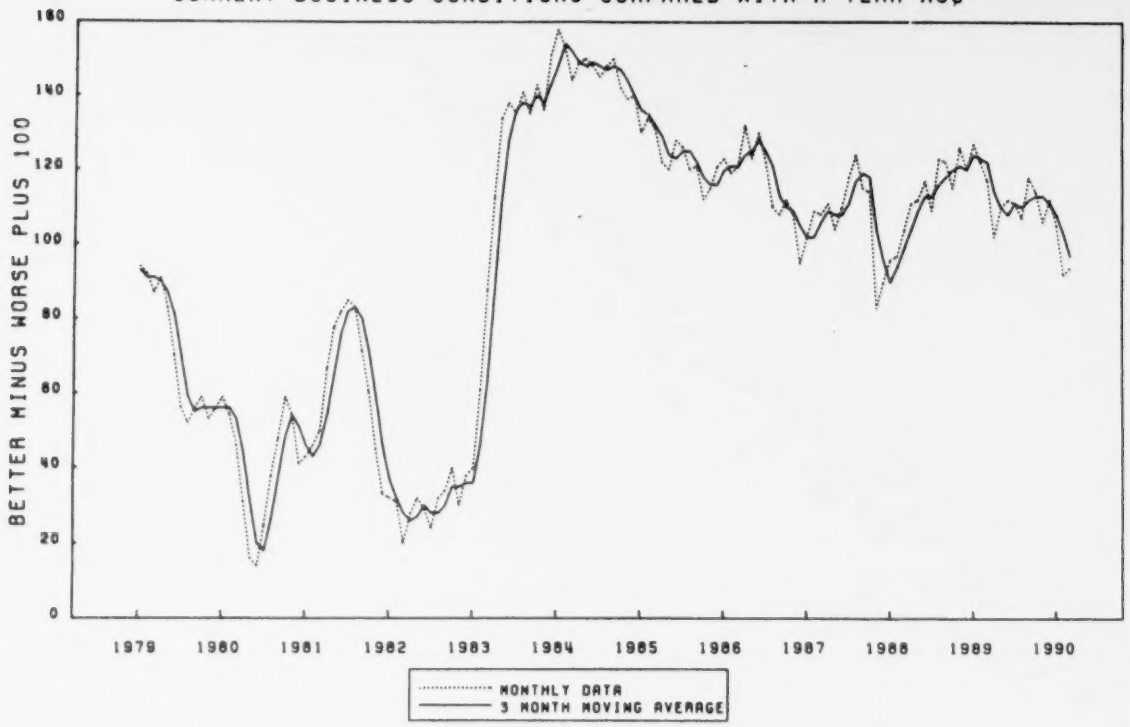


CHART 12 - HISTORICAL SERIES

CURRENT BUSINESS CONDITIONS COMPARED WITH A YEAR AGO

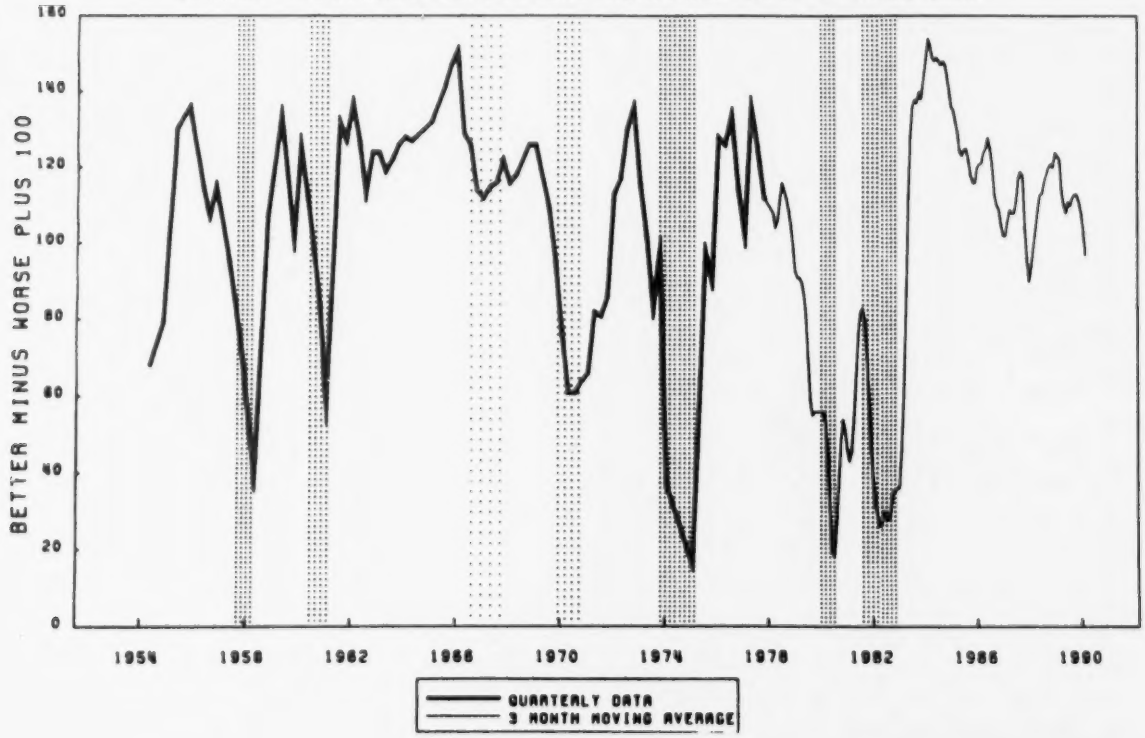


TABLE 12

CURRENT BUSINESS CONDITIONS COMPARED TO A YEAR AGO

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
BETTER NOW	47%	41%	44%	45%	43%	42%	48%	47%	42%	45%	43%	36%	36%
SAME	22	18	19	18	22	21	19	19	19	19	16	17	20
WORSE NOW	30	39	34	33	32	35	30	33	36	33	38	44	42
DK,NA	1	2	3	4	3	2	3	1	3	3	3	3	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "Would you say that at the present time business conditions are better or worse than they were a year ago?"

CHART 13 - RECENT CHANGES

EXPECTED CHANGE IN BUSINESS CONDITIONS IN A YEAR

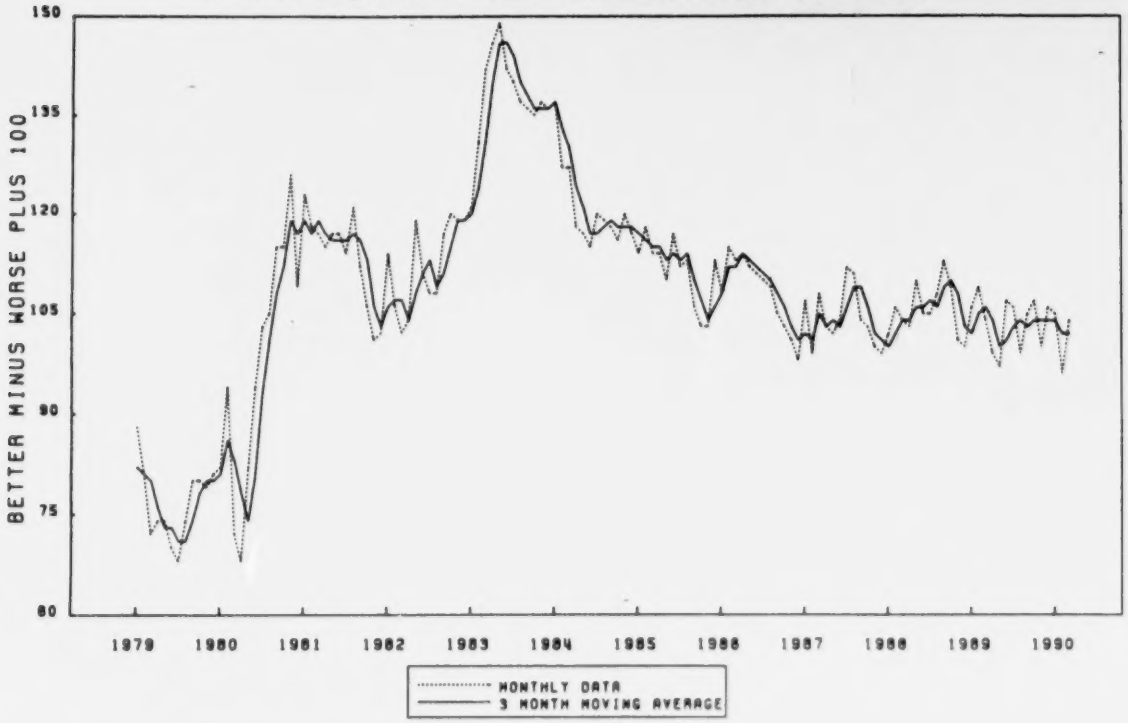


CHART 13 - HISTORICAL SERIES

EXPECTED CHANGE IN BUSINESS CONDITIONS IN A YEAR

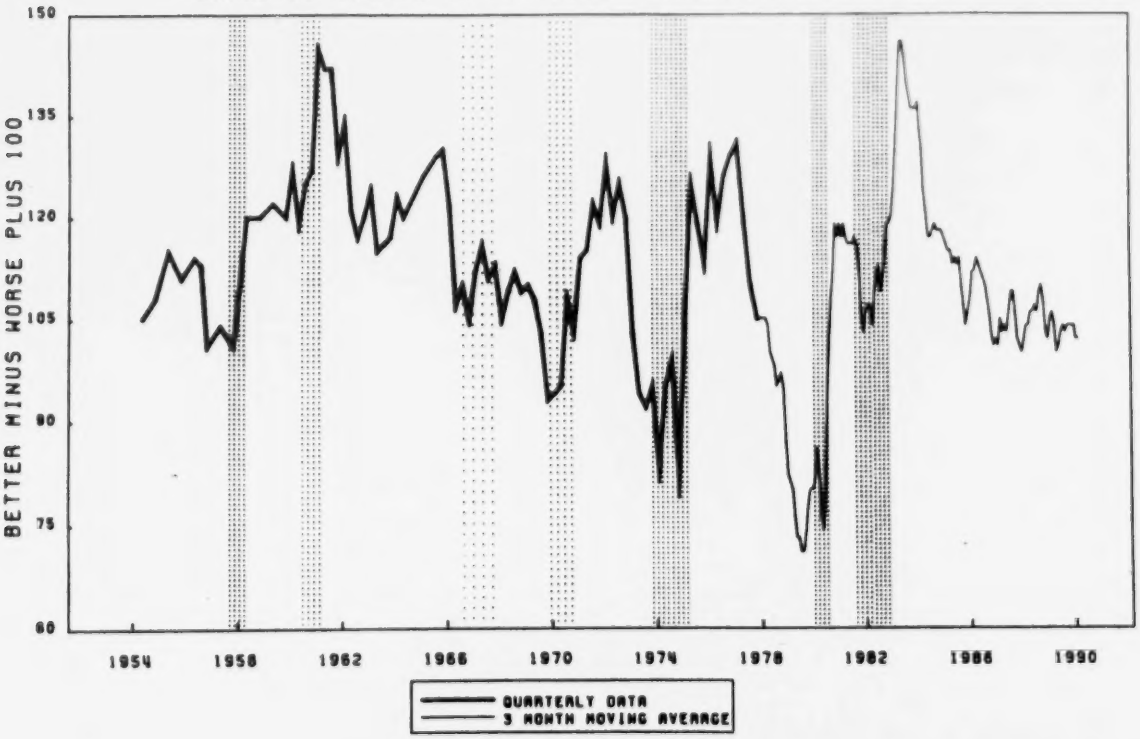


TABLE 13

EXPECTED CHANGE IN BUSINESS CONDITIONS IN A YEAR

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
BETTER	22%	20%	19%	24%	20%	18%	21%	22%	18%	24%	22%	19%	22%
SAME	59	57	56	57	63	60	59	61	61	55	59	56	58
WORSE	18	21	22	17	14	19	16	15	18	18	17	23	18
DK,NA	1	2	3	2	3	3	4	2	3	3	2	2	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "And how about a year from now, do you expect that in the country as a whole business conditions will be better, or worse than they are at present, or just about the same?"

CHART 14 - RECENT CHANGES

TREND IN PAST AND EXPECTED BUSINESS CONDITIONS

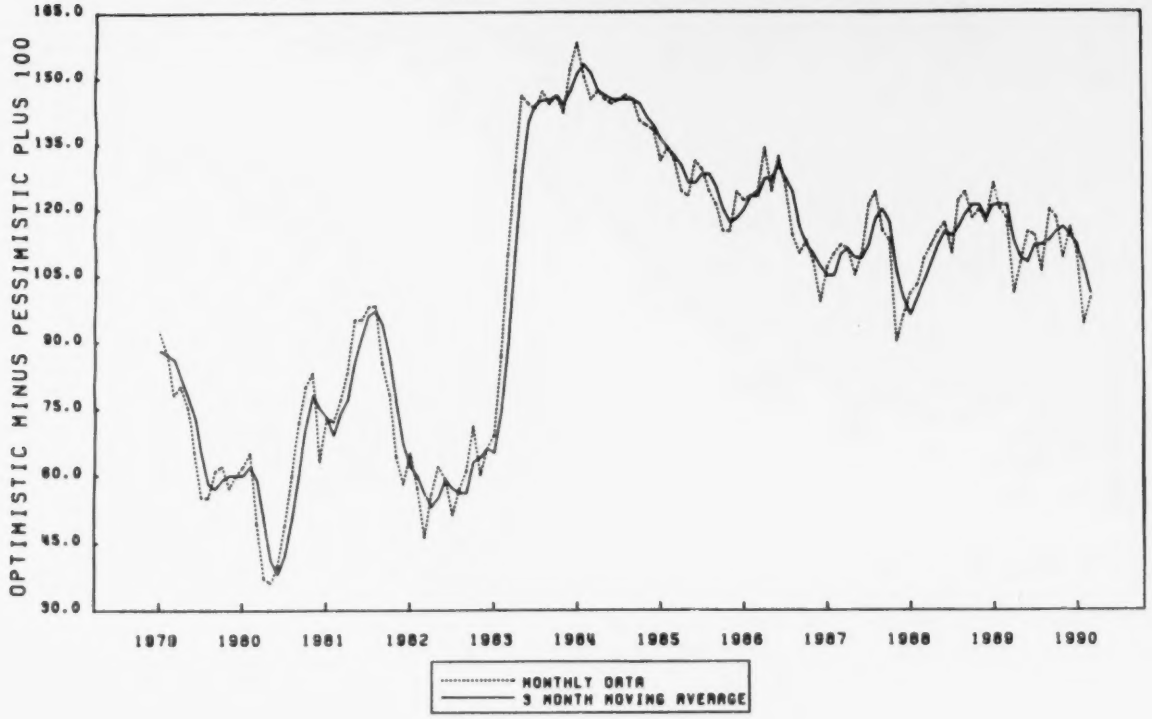


CHART 14 - HISTORICAL SERIES

TREND IN PAST AND EXPECTED BUSINESS CONDITIONS

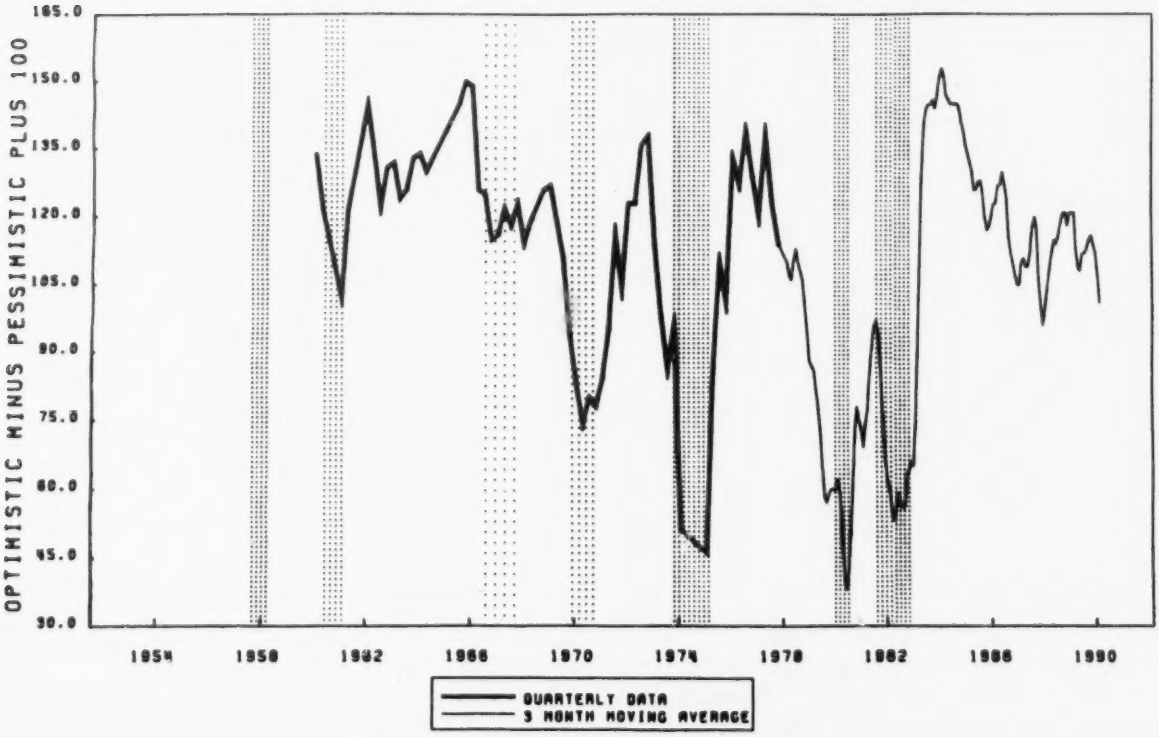


TABLE 14

TREND IN PAST AND EXPECTED CHANGES IN BUSINESS CONDITIONS

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
TREND:													
Continuous increase (a)	12%	14%	13%	15%	14%	11%	14%	15%	10%	15%	14%	11%	10%
Intermittant increase (b)	33	24	29	30	30	29	34	33	32	29	29	25	27
Remain unchanged (c)	16	13	12	12	16	14	12	13	13	13	12	10	12
Intermittant decline (d)	16	24	20	18	20	22	18	19	21	16	20	26	26
Continuous decline (e)	11	13	14	12	10	12	10	11	12	12	13	16	11
Mixed change (f)	9	8	7	6	4	7	6	5	6	10	8	8	10
DK,NA	3	4	5	7	6	5	6	4	6	5	4	4	4
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

Combination of the responses to the questions on Tables 12 and 13.

Key: (a) Better than a year ago/Better a year from now
(b) Better/Same or Same/Better
(c) Same/Same
(d) Worse/Same or Same/Worse
(e) Worse/Worse
(f) Worse/Better or Better/Worse

CHART 15 - RECENT CHANGES

BUSINESS CONDITIONS EXPECTED DURING THE NEXT TWELVE MONTHS

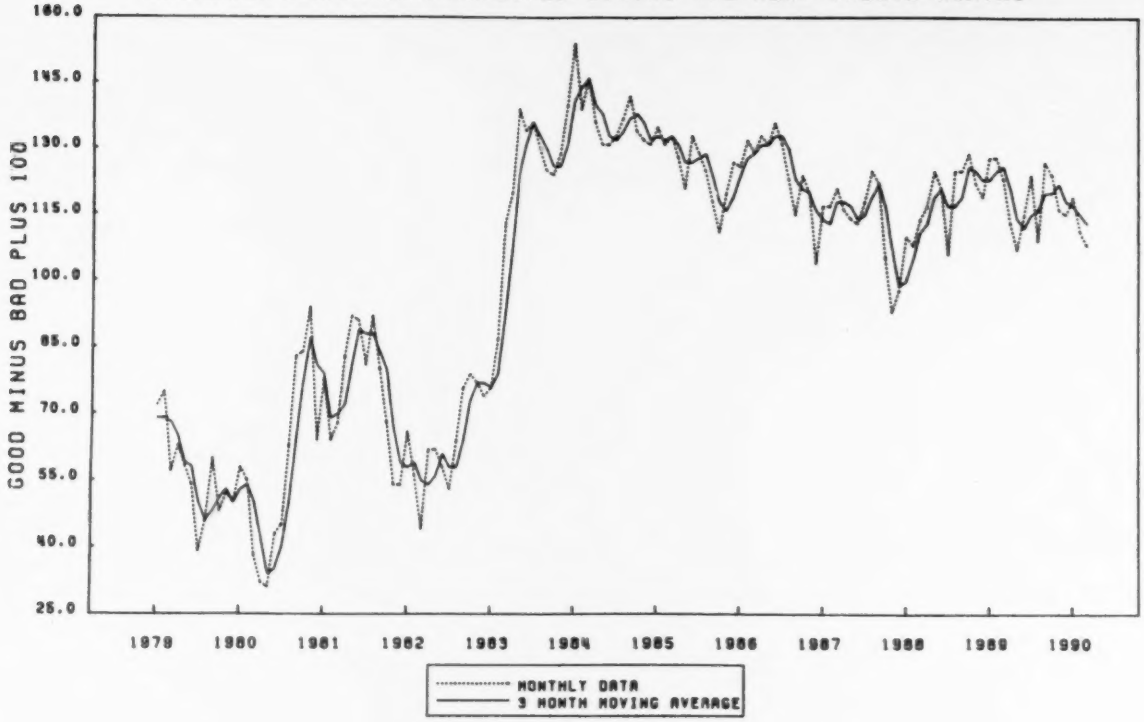


CHART 15 - HISTORICAL SERIES

BUSINESS CONDITIONS EXPECTED DURING THE NEXT TWELVE MONTHS

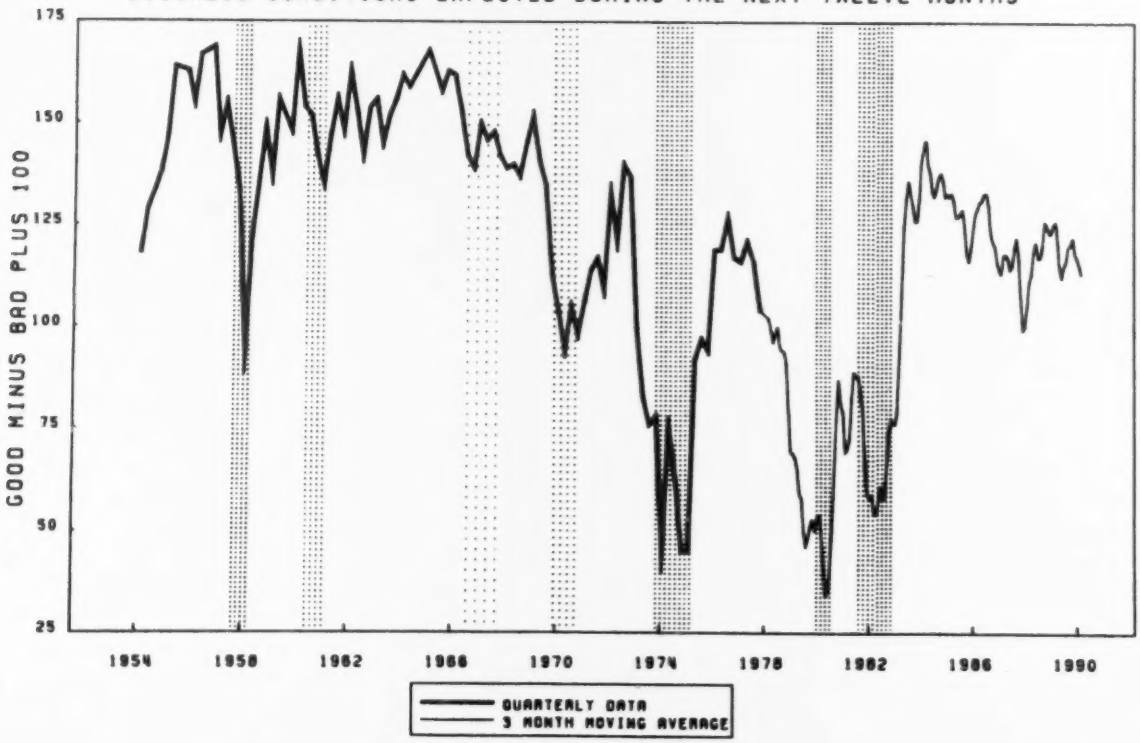


TABLE 15

BUSINESS CONDITIONS EXPECTED DURING THE NEXT 12 MONTHS

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIMES	55%	49%	46%	48%	53%	46%	55%	53%	50%	49%	52%	46%	48%
UNCERTAIN; GOOD & BAD	4	3	4	5	4	6	4	5	4	2	3	6	3
BAD TIMES	32	36	39	33	29	37	28	29	34	34	33	35	40
DON'T KNOW	5	6	6	9	7	4	6	8	7	7	6	7	5
NOT ASCERTAINED	4	6	5	5	7	7	7	5	5	8	6	6	4
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "Now turning to business conditions in the country as a whole--do you think that during the next 12 months we'll have good times financially, or bad times or what?"

CHART 16 - RECENT CHANGES

BUSINESS CONDITIONS EXPECTED FOR THE NEXT FIVE YEARS

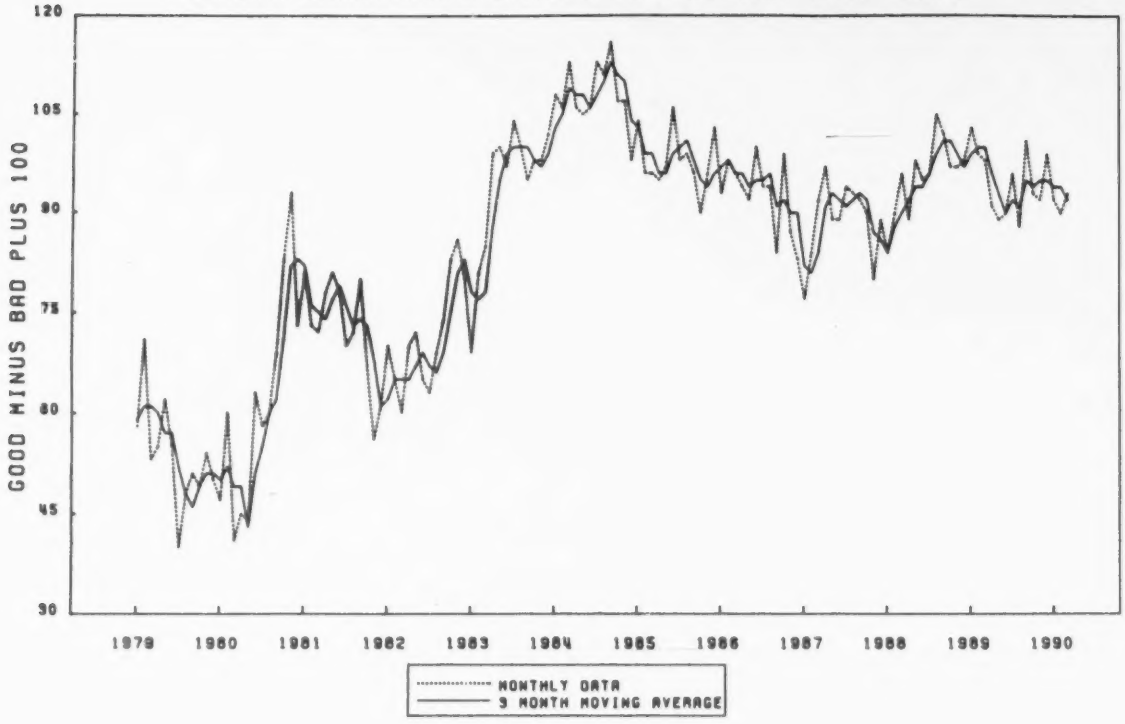


CHART 16 - HISTORICAL SERIES

BUSINESS CONDITIONS EXPECTED FOR THE NEXT FIVE YEARS

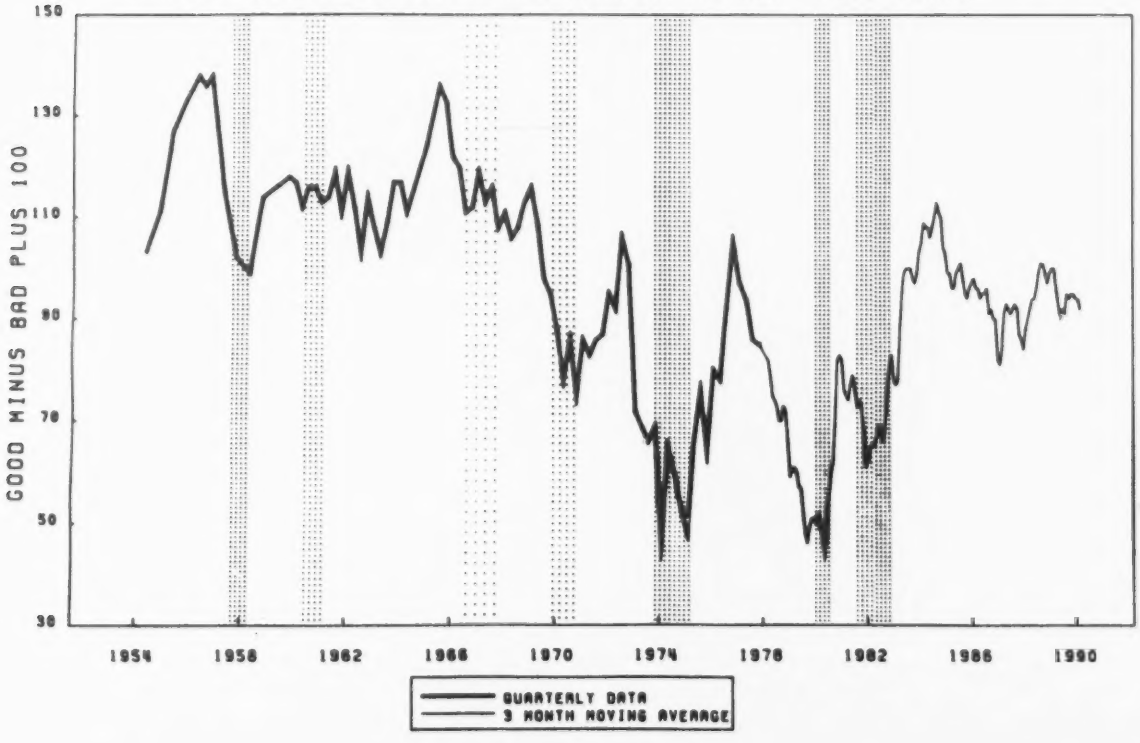


TABLE 16

BUSINESS CONDITIONS EXPECTED DURING THE NEXT FIVE YEARS

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIMES	40%	37%	36%	37%	39%	33%	41%	36%	38%	39%	37%	36%	40%
UNCERTAIN; GOOD & BAD	14	13	13	12	13	13	13	14	13	15	12	11	10
BAD TIMES	42	46	47	47	43	45	40	43	46	40	45	46	47
NOT ASCERTAINED	4	4	4	4	5	9	6	7	3	6	6	7	3
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "Looking ahead, which would you say is more likely--that in the country as a whole we'll have continuous good times during the next 5 years or so, or that we will have periods of widespread unemployment or depression, or what?"

CHART 17 - RECENT CHANGES

EXPECTED CHANGE IN UNEMPLOYMENT

CHART 17 - HISTORICAL SERIES

EXPECTED CHANGE IN UNEMPLOYMENT

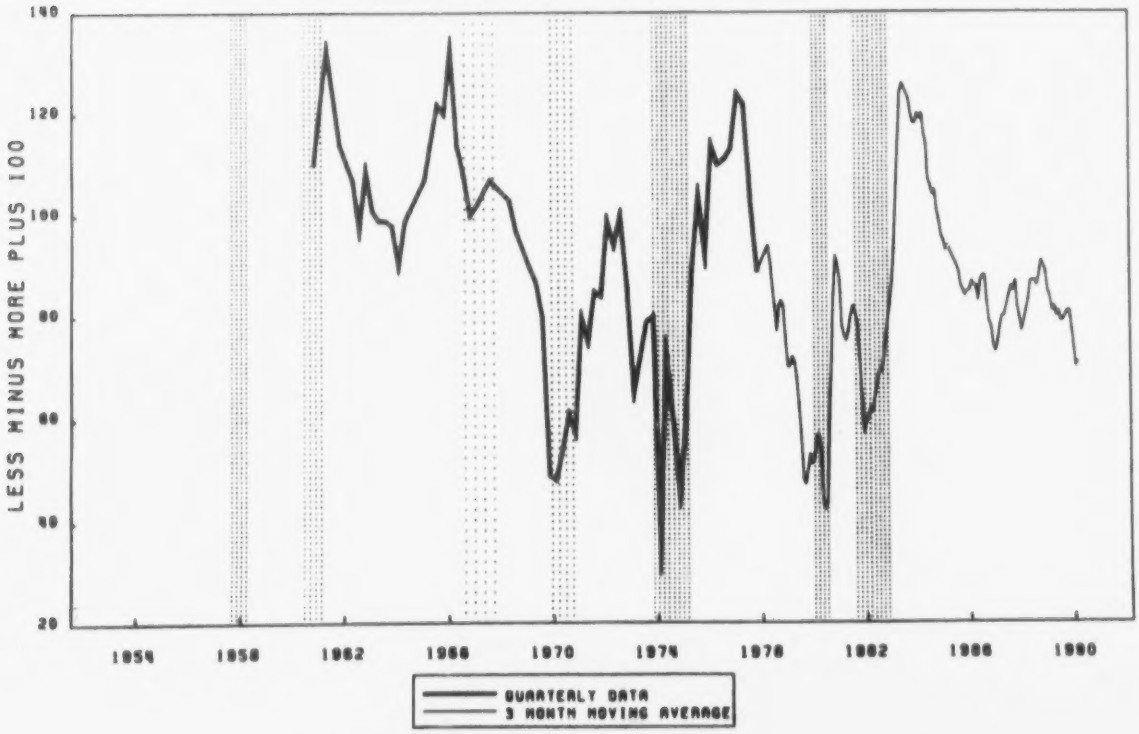


TABLE 17

EXPECTED CHANGE IN UNEMPLOYMENT

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
LESS	12%	14%	12%	10%	11%	10%	11%	14%	10%	11%	10%	7%	10%
SAME	53	55	52	59	57	54	61	55	54	51	52	48	55
MORE	33	29	35	29	31	35	26	30	35	37	36	44	34
DK,NA	2	2	1	2	1	1	2	1	1	1	2	1	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "How about people out of work during the coming 12 months--do you think that there will be more unemployment than now, about the same, or less?"

CHART 18 - RECENT CHANGES

EXPECTED CHANGE IN INTEREST RATES

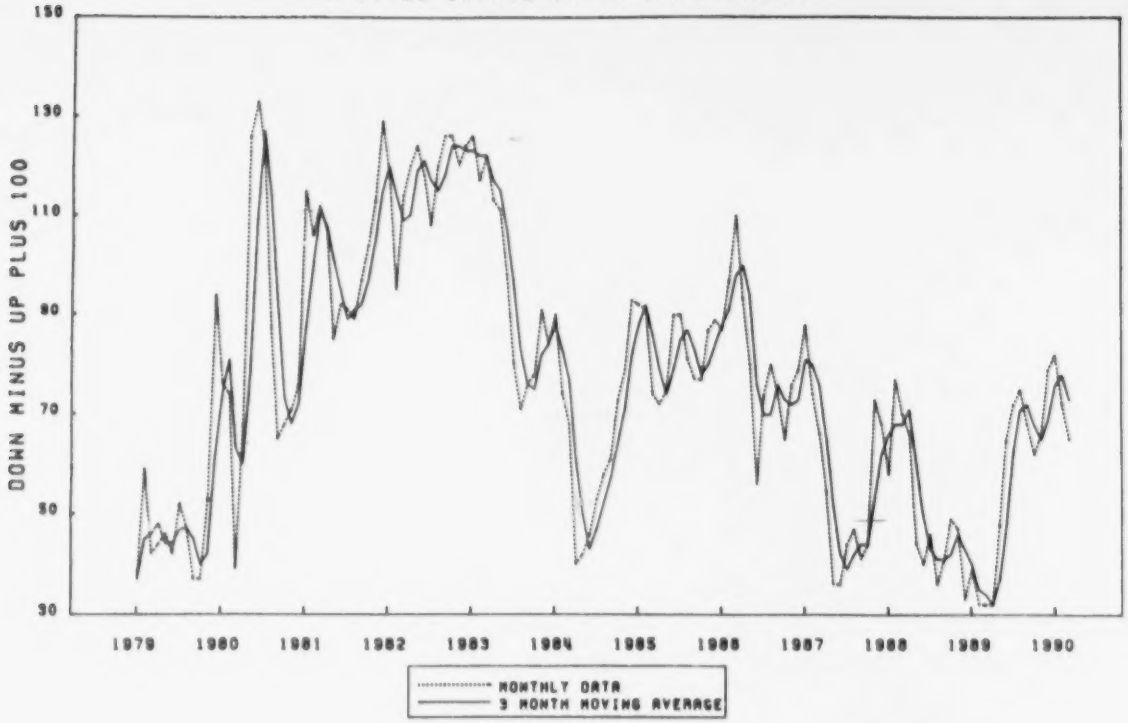


CHART 18 - HISTORICAL SERIES

EXPECTED CHANGE IN INTEREST RATES

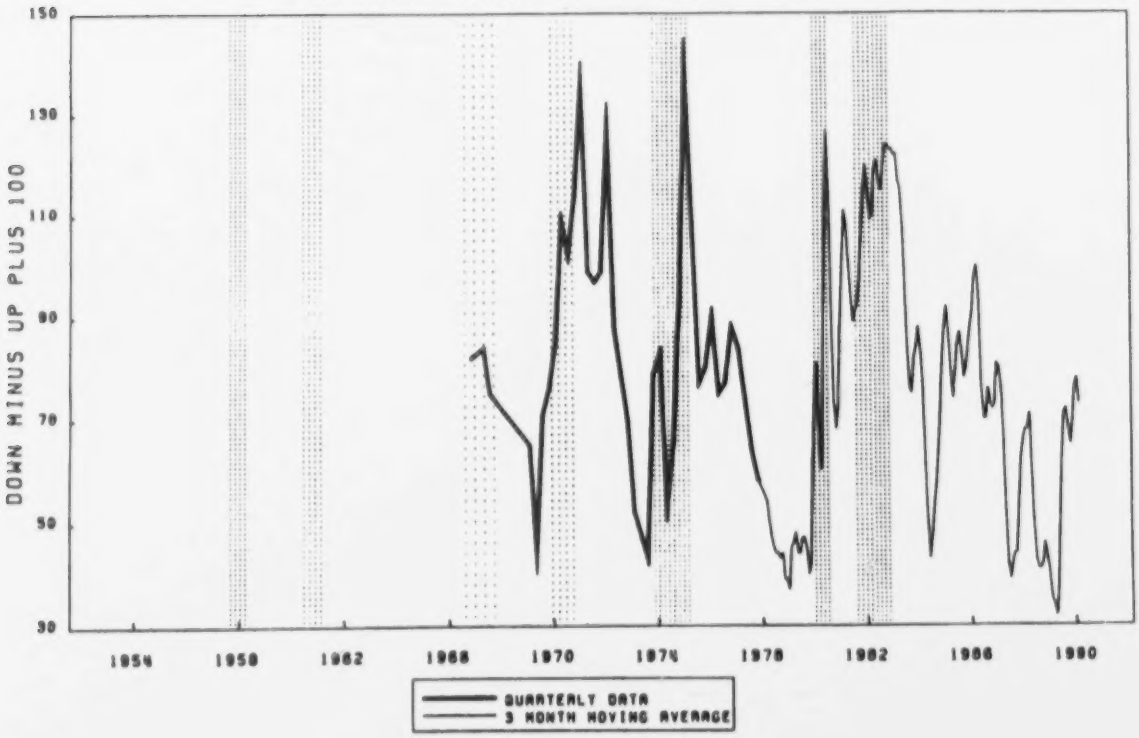


TABLE 18

EXPECTED CHANGE IN INTEREST RATES

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GO UP	73%	75%	64%	54%	51%	49%	50%	55%	52%	46%	45%	48%	51%
STAY THE SAME	20	17	20	24	25	24	30	26	27	26	26	29	32
GO DOWN	5	7	12	19	23	24	18	17	18	25	27	20	16
DK,NA	2	1	4	3	1	3	2	2	3	3	2	3	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "No one can say for sure, but what do you think will happen to interest rates for borrowing money during the next 12 months--will they go up, stay the same, or go down?"

CHART 19 - RECENT CHANGES

MEAN EXPECTED PRICE INCREASE OVER THE NEXT 12 MONTHS

CHART 19 - HISTORICAL SERIES

MEAN EXPECTED PRICE INCREASE OVER THE NEXT 12 MONTHS

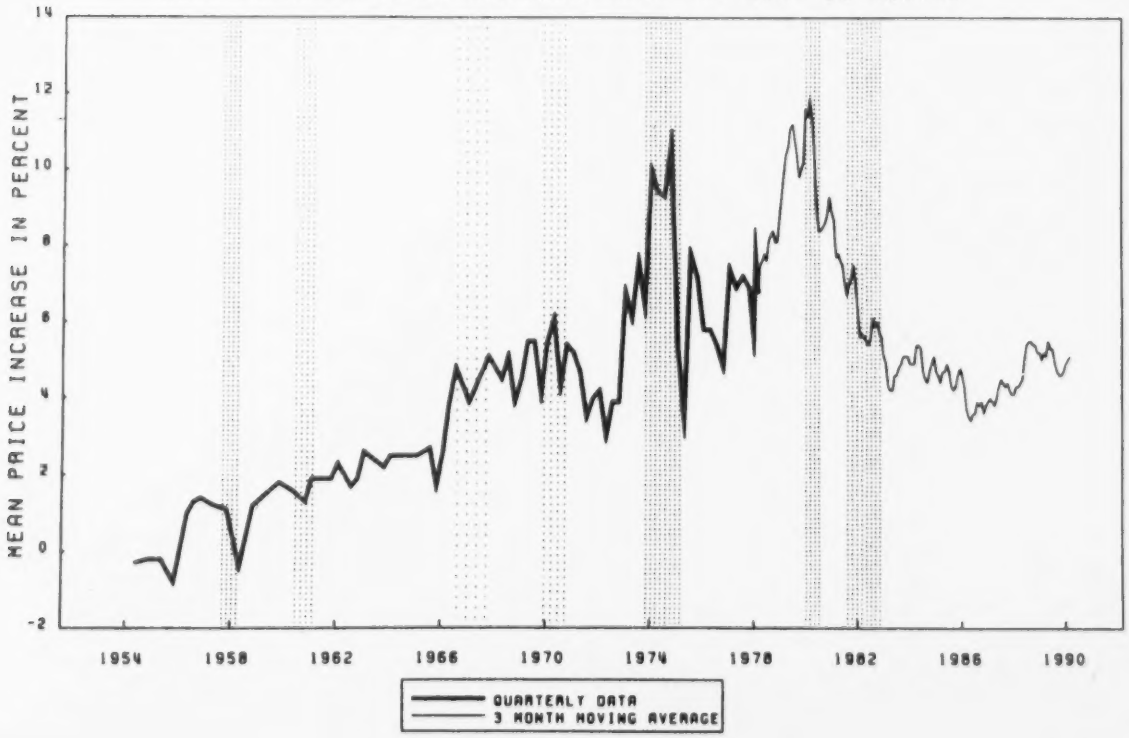


TABLE 19

EXPECTED CHANGE IN PRICES DURING THE NEXT 12 MONTHS

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
SAME OR DOWN	12%	8%	10%	10%	10%	13%	13%	12%	12%	10%	11%	15%	11%
WILL GO UP BY:													
1-2%	18	17	16	18	18	18	21	19	17	21	14	13	18
3-4%	23	23	19	24	21	23	24	23	26	21	24	23	24
5%	17	21	23	19	22	21	21	19	19	23	21	22	20
6-9%	9	10	9	9	9	6	6	9	7	10	8	10	8
10-14%	9	10	11	10	8	9	6	8	8	5	10	8	8
15% or more	7	5	7	5	5	3	3	3	4	5	5	4	5
DK how much up	4	6	4	5	6	6	5	5	6	5	5	5	6
DK,NA	1	*	1	*	1	1	1	2	1	*	2	*	*
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEAN INCREASE	5.6	5.0	5.8	5.0	5.1	4.7	4.4	4.7	4.7	4.6	5.4	5.1	4.9
VARIANCE	64	24	49	34	39	42	32	32	31	28	49	45	38
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The questions were: "During the next 12 months, do you think that prices in general will go up, or go down, or stay where they are now?" and "By about what percent do you expect prices to go up, on the average, during the next 12 months?"

* : Less than half of one percent.

CHART 20 - RECENT CHANGES

OPINIONS ABOUT THE GOVERNMENT'S ECONOMIC POLICY

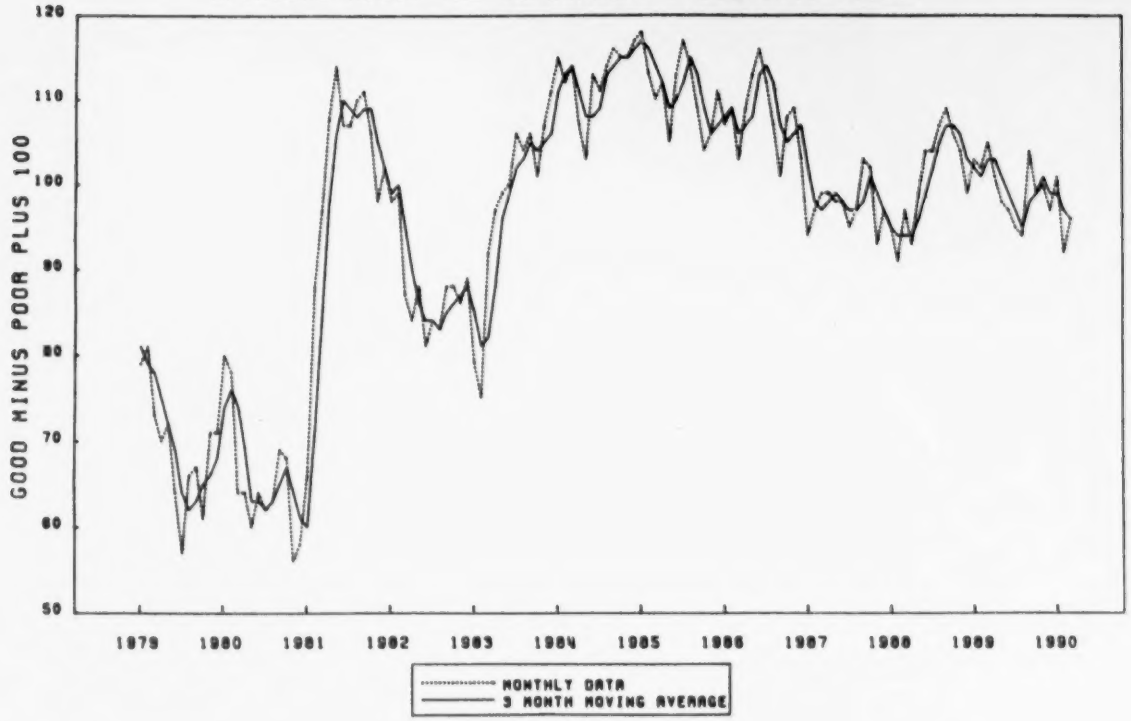


CHART 20 - HISTORICAL SERIES

OPINIONS ABOUT THE GOVERNMENT'S ECONOMIC POLICY

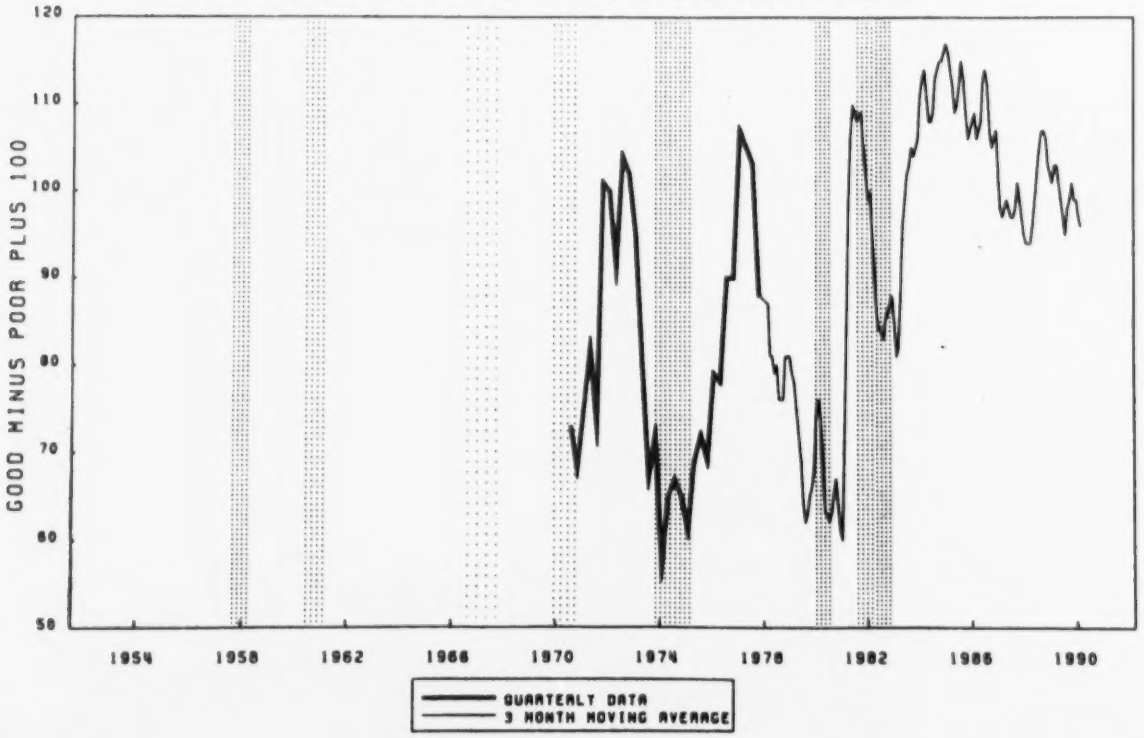


TABLE 20

OPINIONS ABOUT THE GOVERNMENT'S ECONOMIC POLICY

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
A GOOD JOB	25%	19%	19%	20%	18%	18%	21%	18%	17%	20%	18%	17%	19%
ONLY FAIR	52	59	57	55	56	56	60	61	64	55	63	57	56
A POOR JOB	20	18	21	23	23	24	17	19	17	23	17	25	23
DK,NA	3	4	3	2	3	2	2	2	2	2	2	1	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "As to the economic policy of the government--I mean steps taken to fight inflation or unemployment--would you say the government is doing a good job, only fair, or a poor job?"

CHART 21 - RECENT CHANGES

BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS

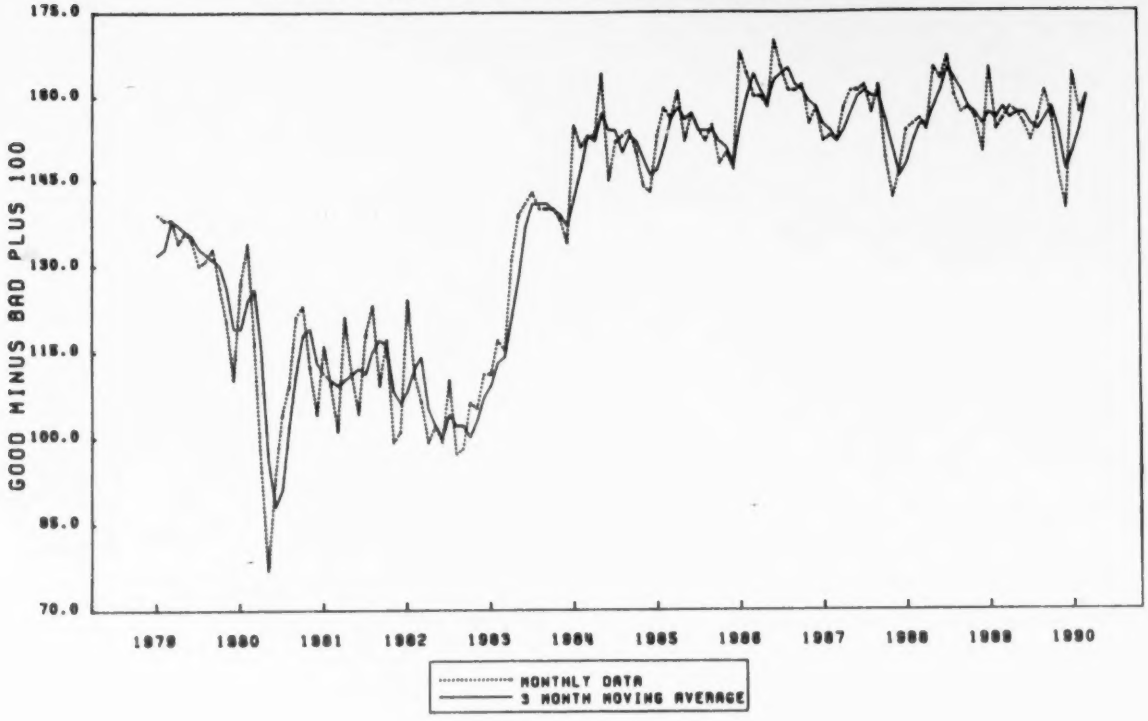


CHART 21 - HISTORICAL SERIES

BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS

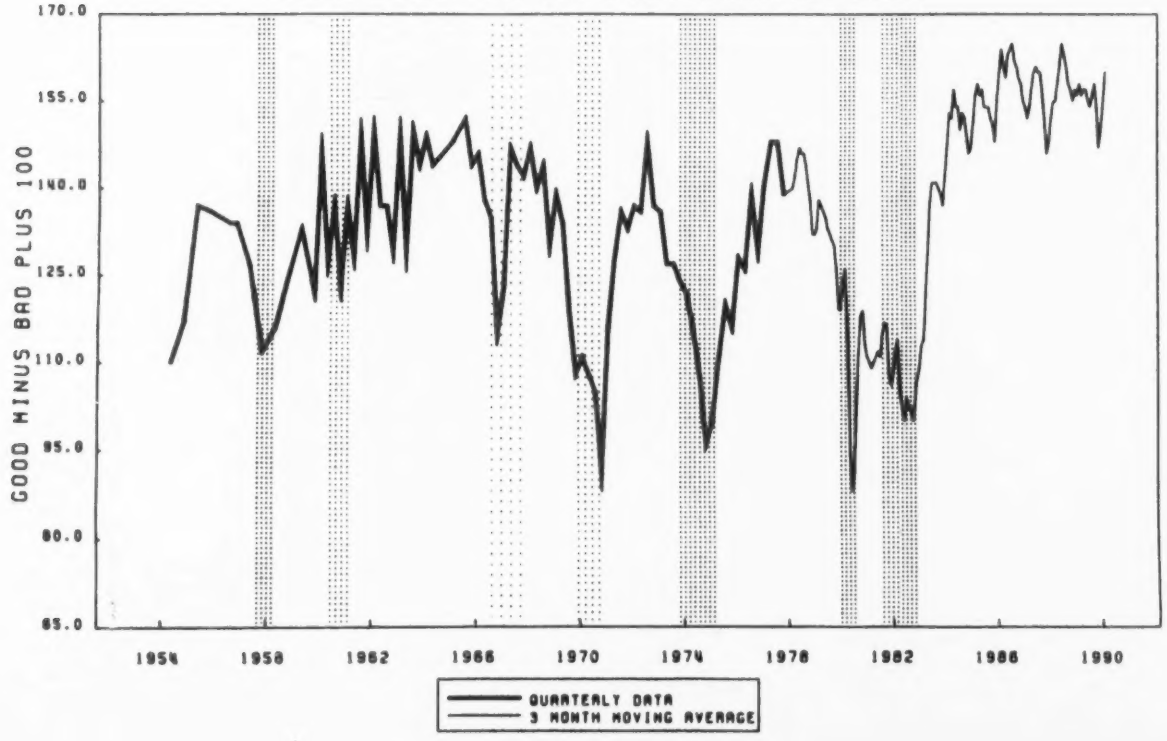


TABLE 21

BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIME TO BUY	72%	75%	73%	71%	71%	73%	75%	73%	67%	65%	77%	74%	76%
UNCERTAIN, DEPENDS	12	8	11	13	10	10	11	10	12	10	10	9	8
BAD TIME TO BUY	16	17	16	16	19	17	14	17	21	25	13	17	16
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "About the big things people buy for their homes--such as furniture, a refrigerator, stove, television, and things like that. Generally speaking, do you think now is a good or a bad time for people to buy major household items?"

CHART 22A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR DURABLES

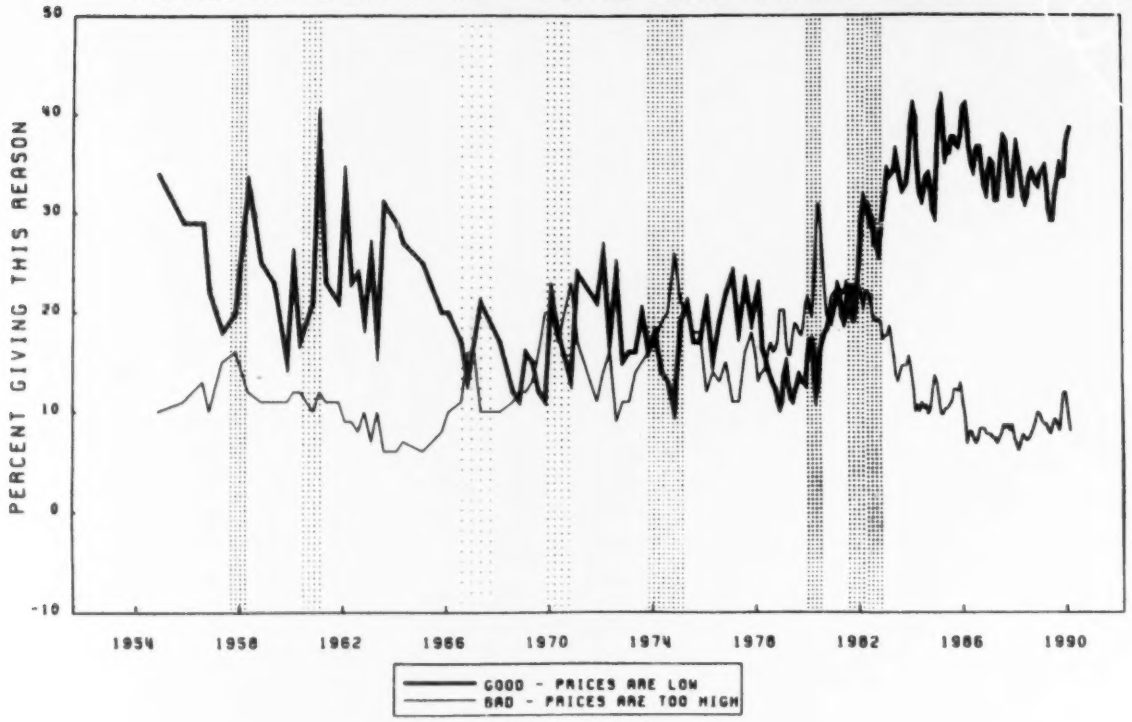


CHART 22B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR DURABLES

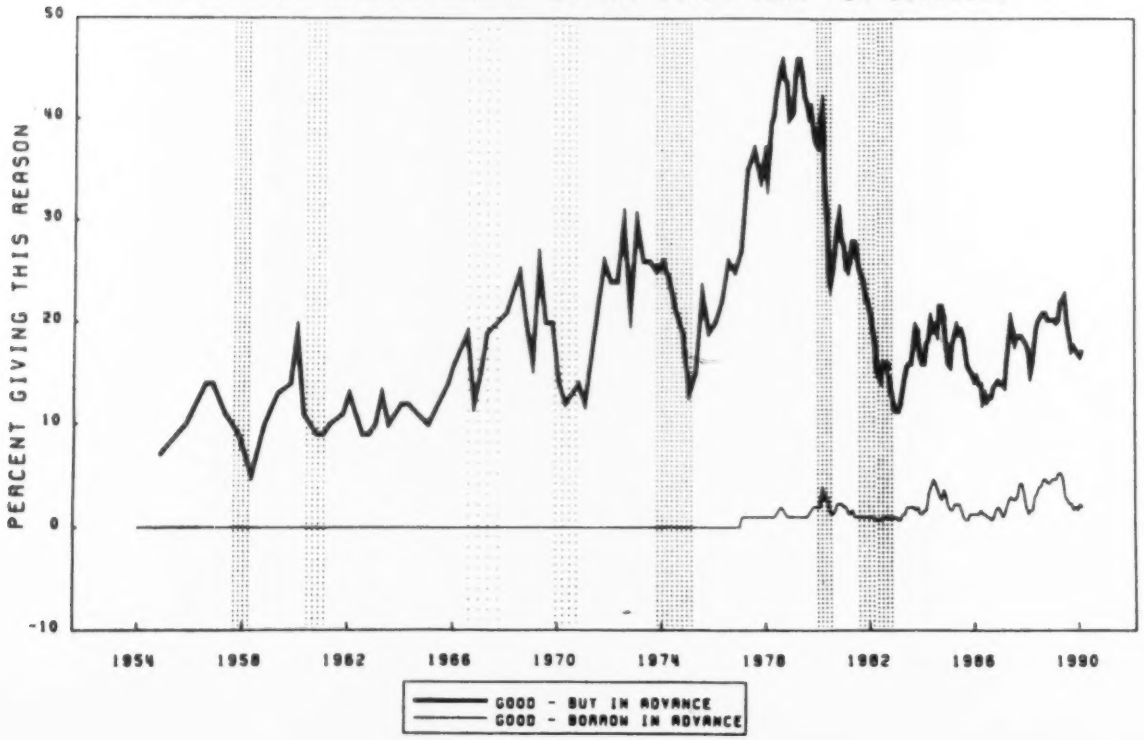


TABLE 22
SELECTED REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS +

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIME TO BUY:													
Prices are low; good buys available	33%	31%	27%	30%	31%	35%	34%	35%	32%	34%	45%	35%	36%
Prices won't come down; are going higher	20	22	24	21	23	16	17	19	17	16	18	16	18
Interest rates are low	6	4	5	5	7	7	7	5	7	5	5	5	8
Borrow-in-advance of rising interest rates	5	7	4	3	2	3	2	2	1	3	1	3	2
Times are good; prosperity	7	8	6	6	5	2	8	6	4	3	4	4	8
BAD TIME TO BUY:													
Prices are high	10	7	7	9	10	9	7	8	14	14	8	8	8
Interest rates are high; credit is tight	5	8	5	6	4	4	2	3	3	4	2	3	3
Lack of purchasing power	5	6	7	6	6	5	6	6	6	8	4	8	7
Times are bad; can't afford to buy	4	4	4	3	3	2	4	4	5	5	2	6	5
Bad times ahead; uncertain future	1	2	3	3	3	3	2	2	1	3	2	2	3

Responses to the query: "Why do you say so?" following the question on Table 21.
+ : May add to more than 100% due to multiple mentions.

CHART 22C - HISTORICAL SERIES
REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR DURABLES

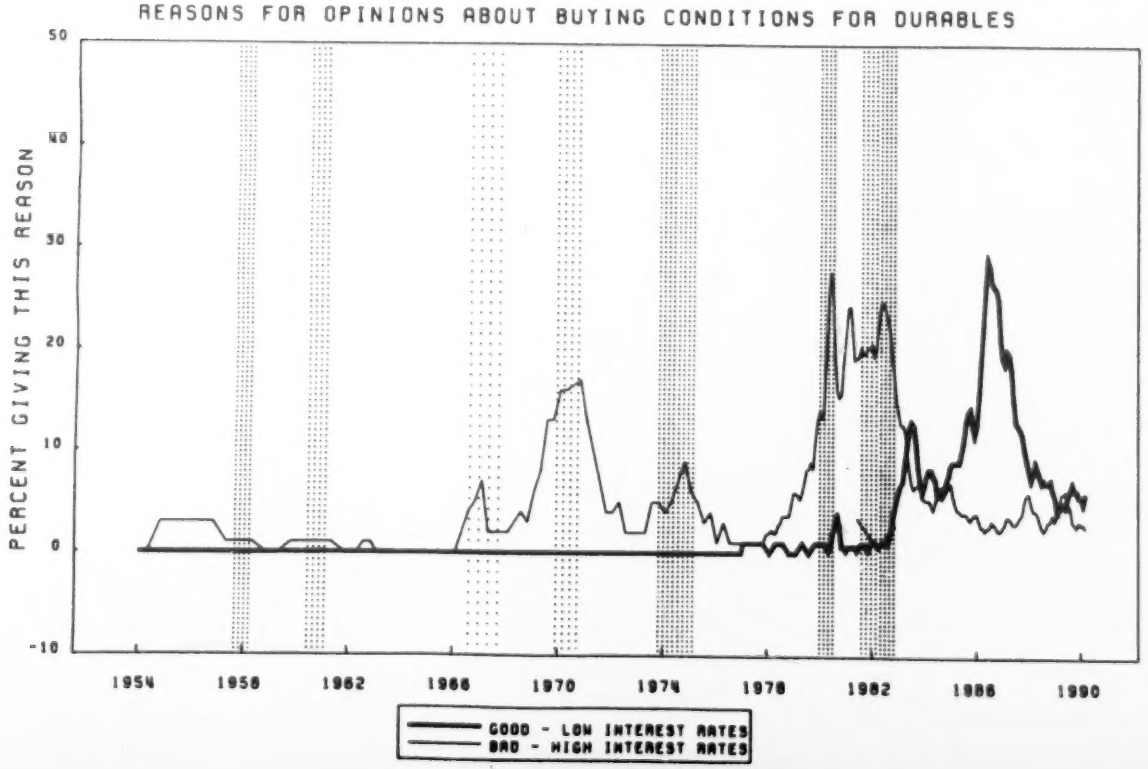


CHART 23 - RECENT CHANGES
BUYING CONDITIONS FOR HOUSES

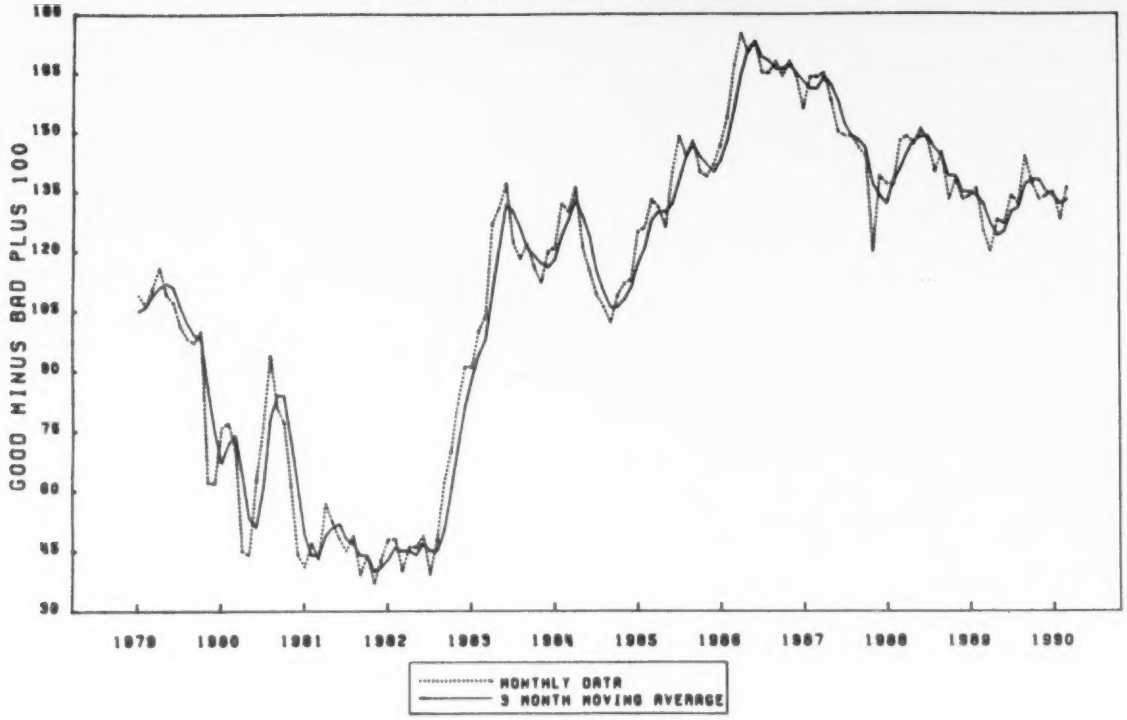


CHART 23 - HISTORICAL SERIES
BUYING CONDITIONS FOR HOUSES

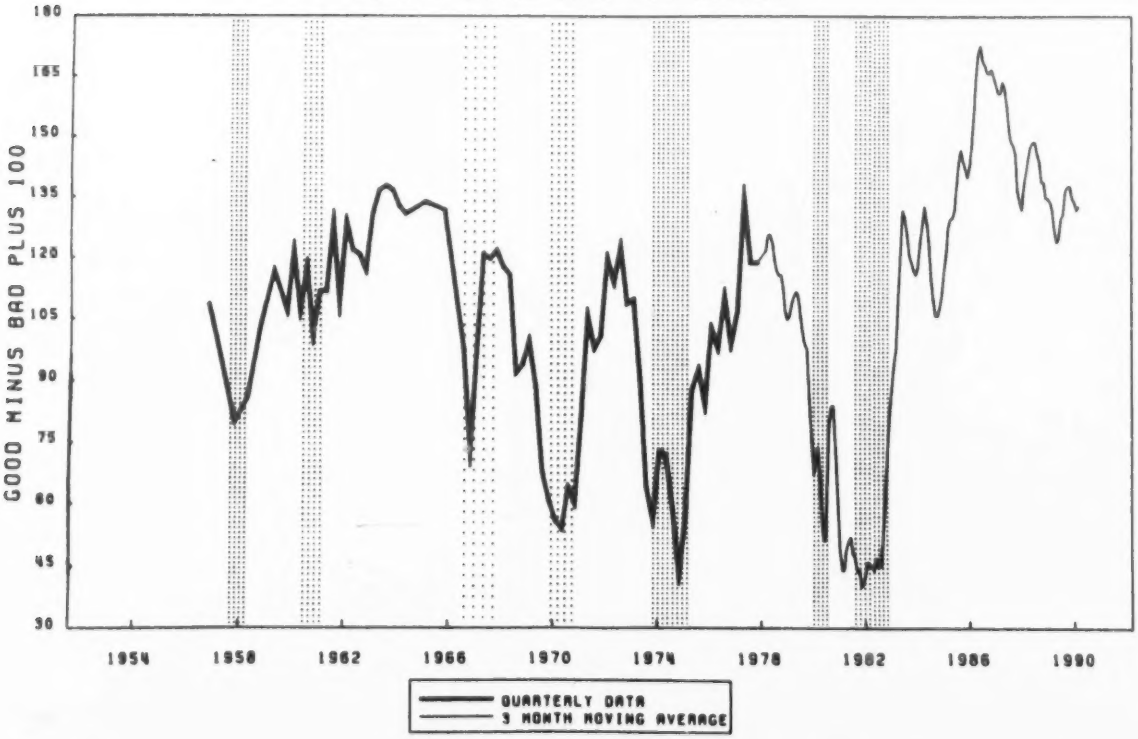


TABLE 23

BUYING CONDITIONS FOR HOUSES

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIME TO BUY	60%	58%	61%	61%	64%	64%	70%	66%	63%	64%	64%	62%	66%
UNCERTAIN, DEPENDS	5	4	6	5	6	4	4	5	7	6	7	4	4
BAD TIME TO BUY	35	38	33	34	30	32	26	29	30	30	29	34	30
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "Generally speaking, do you think now is a good time or a bad time to buy a house?"

CHART 24A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES

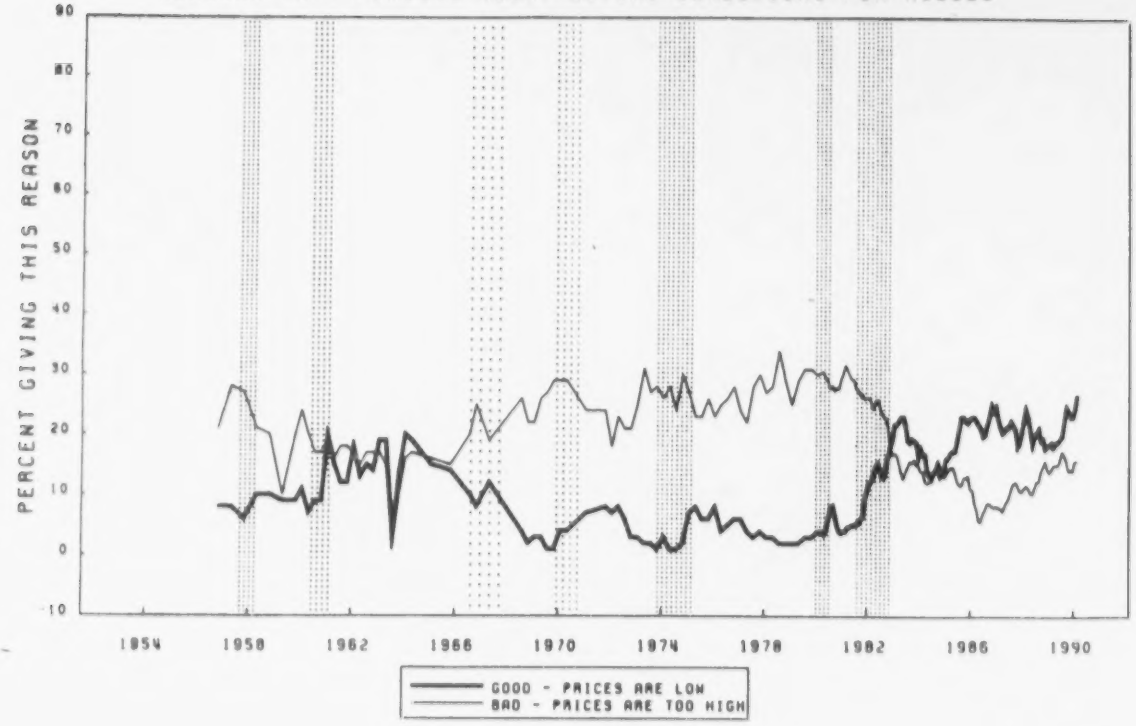


CHART 24B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES

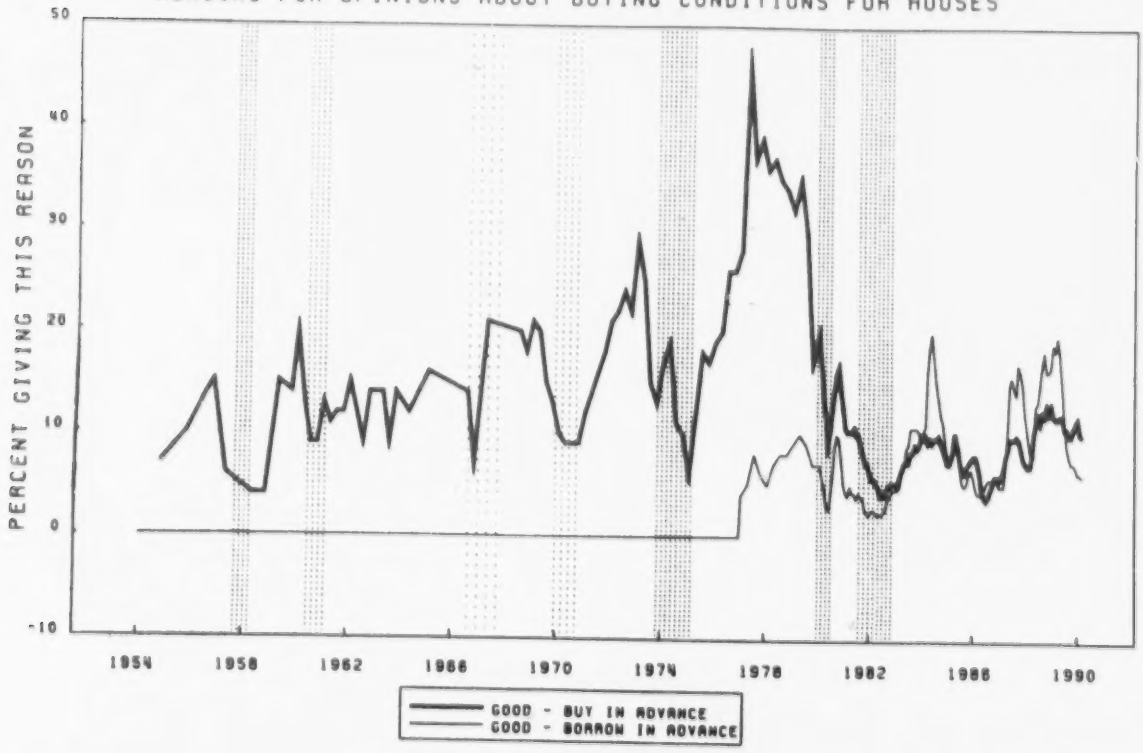


TABLE 24
SELECTED REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES +

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIME TO BUY:													
Prices are low; good buys available	17%	17%	22%	17%	19%	23%	25%	26%	21%	22%	26%	25%	29%
Prices won't come down; are going higher	12	13	11	12	9	11	10	9	13	12	10	9	11
Interest rates are low	17	16	16	22	27	28	36	29	29	26	31	25	28
Borrow-in-advance of rising interest rates	19	20	15	11	8	8	8	6	8	7	4	8	6
Good investment	9	6	8	9	8	6	7	6	8	8	8	6	6
Times are good; prosperity	2	4	4	3	5	3	4	5	2	3	2	3	4
BAD TIME TO BUY:													
Prices are high	16	16	13	16	18	18	14	15	13	15	14	18	15
Interest rates are high; credit is tight	24	28	25	23	15	15	14	13	15	17	13	18	18
Times are bad; can't afford to buy	7	7	6	5	6	6	6	6	8	6	6	8	5
Bad times ahead; uncertain future	3	4	3	2	2	2	2	1	2	3	4	2	4

Responses to the query: "Why do you say so?" following the question on Table 23.
+ : May add to more than 100% due to multiple mentions.

CHART 24C - HISTORICAL SERIES
REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES

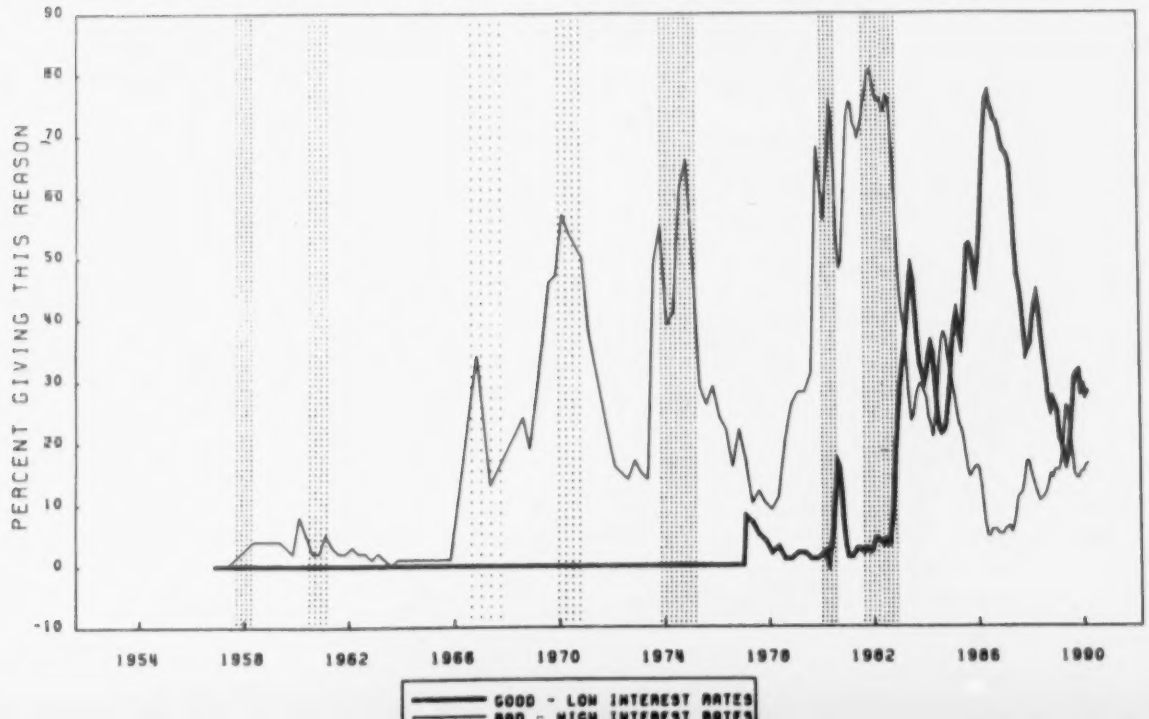


CHART 25 - RECENT CHANGES
BUYING CONDITIONS FOR CARS

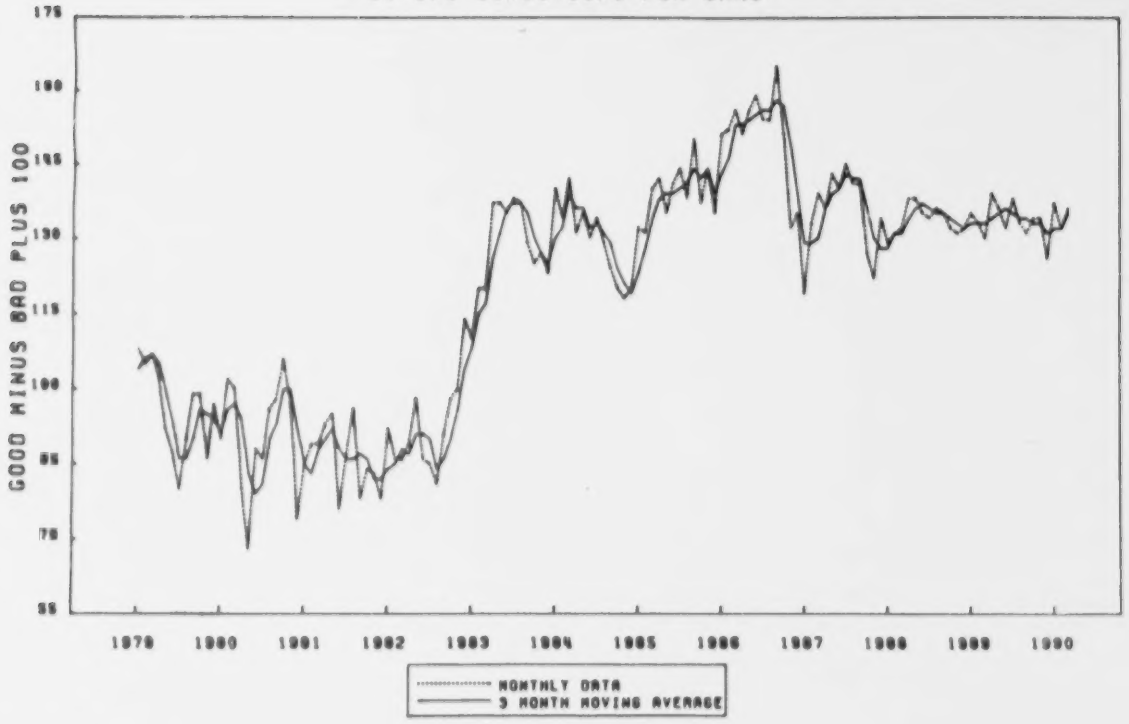


CHART 25 - HISTORICAL SERIES
BUYING CONDITIONS FOR CARS

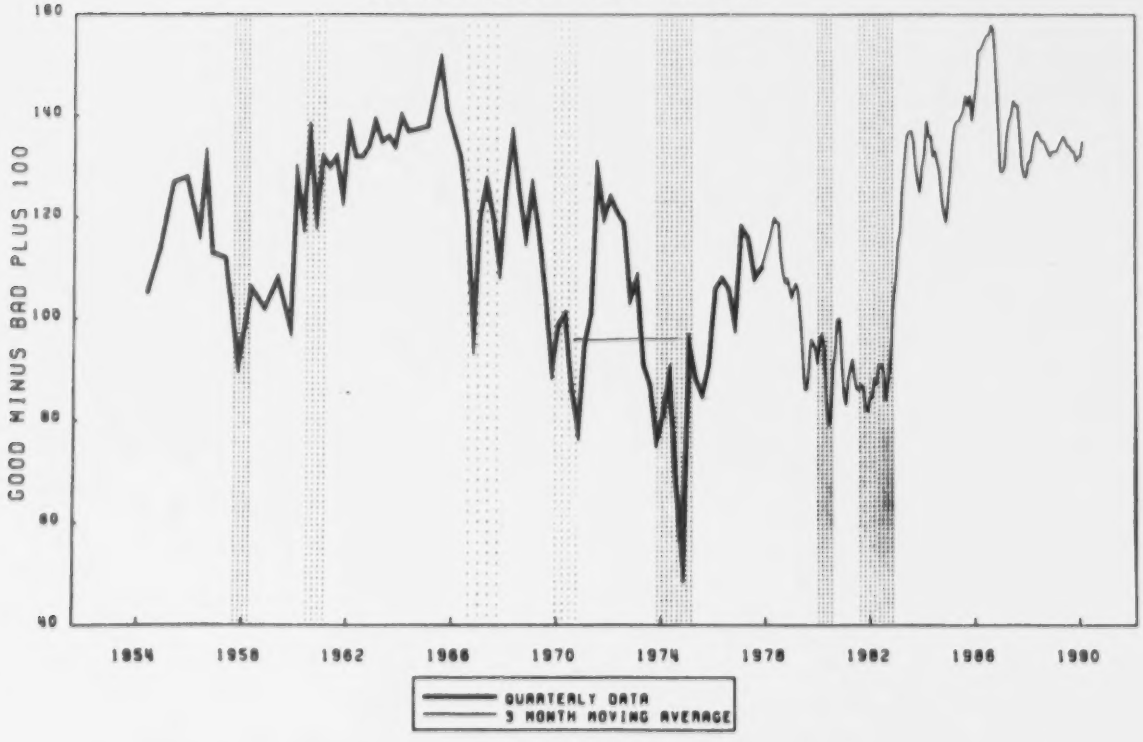


TABLE 25

BUYING CONDITIONS FOR CARS

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIME TO BUY	61%	65%	63%	61%	64%	61%	61%	62%	62%	58%	63%	63%	65%
UNCERTAIN; DEPENDS	8	9	10	10	10	11	9	10	10	10	11	6	6
BAD TIME TO BUY	31	26	27	29	26	28	30	28	28	32	26	31	29
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	502	500	503	507	501	502	506	500	502	500	500	511	503

The question was: "Speaking now of the automobile market--do you think the next 12 months or so will be a good time or a bad time to buy a car?"

CHART 26A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS

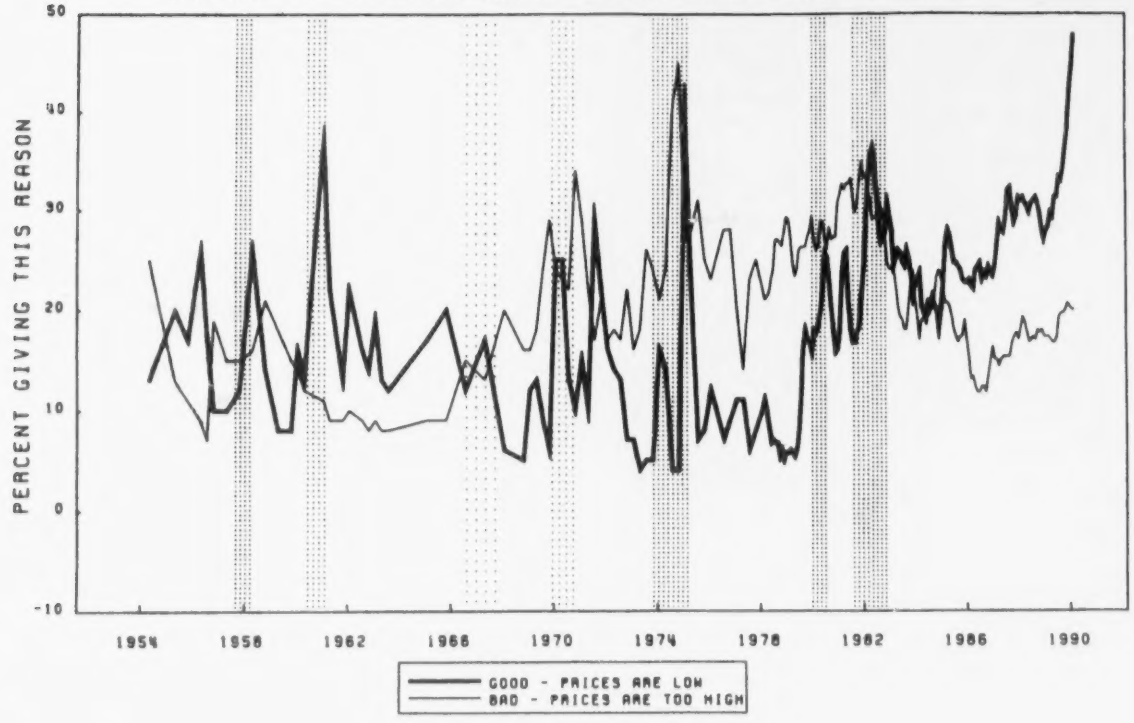


CHART 26B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS

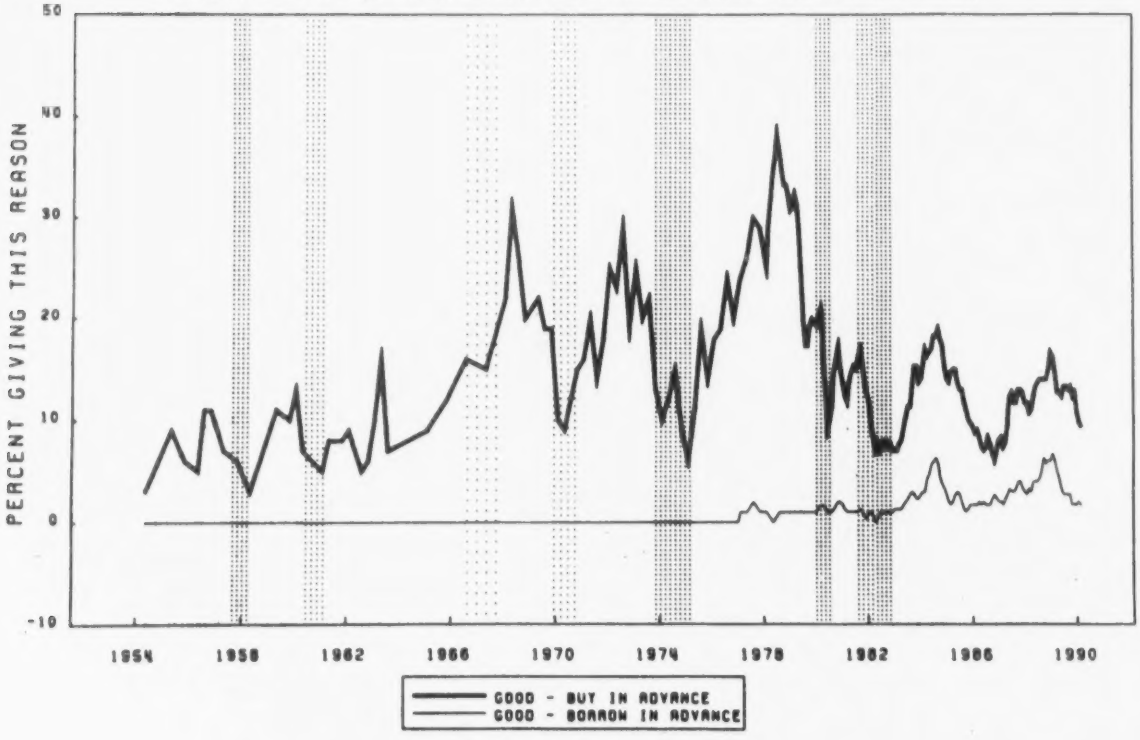


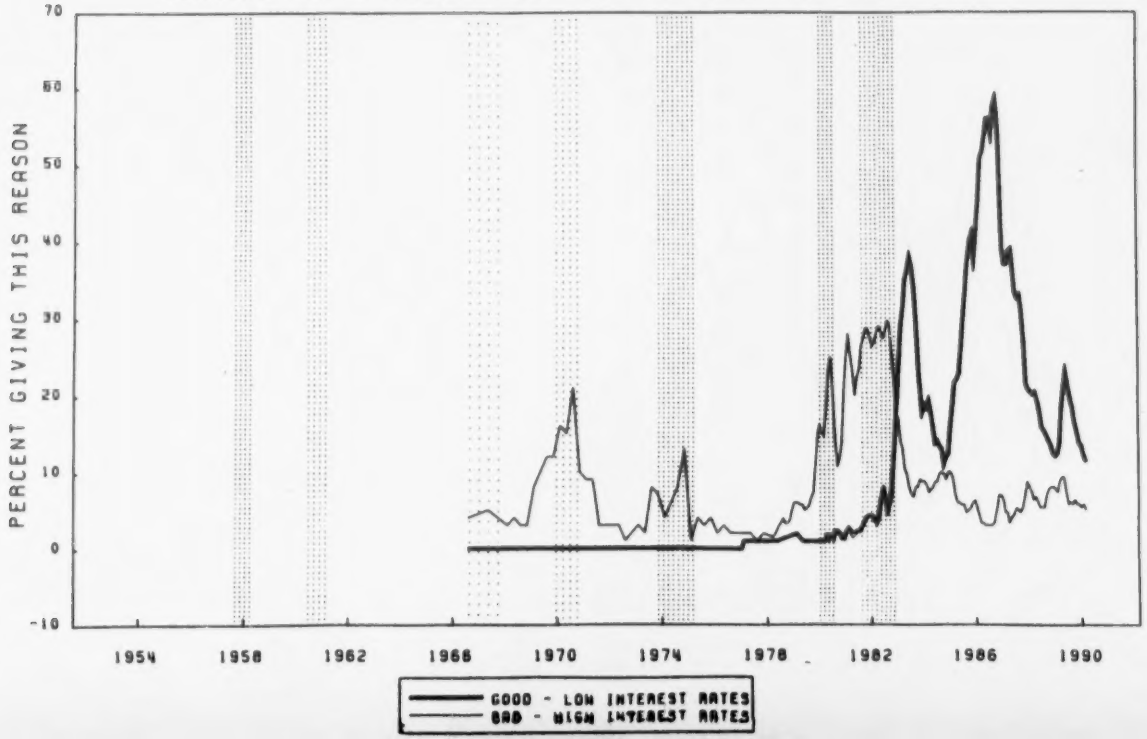
TABLE 26
SELECTED REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS +

	Mar. 1989	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990
GOOD TIME TO BUY:													
Prices are low; good buys available	27%	32%	29%	33%	32%	35%	32%	36%	41%	38%	48%	48%	48%
Prices won't come down; are going higher	12	12	14	11	15	14	10	16	11	11	10	8	10
Interest rates are low	15	25	23	21	19	18	18	13	15	13	12	11	11
Borrow-in-advance of rising interest rates	5	4	4	2	2	4	2	2	1	2	2	2	1
Times are good; prosperity	3	3	3	2	3	2	4	3	2	1	2	2	2
BAD TIME TO BUY:													
Prices are high	18	16	16	18	18	22	19	18	23	21	17	22	21
Interest rates are high; credit is tight	13	9	6	7	4	7	6	6	5	6	5	6	4
Times are bad; can't afford to buy	2	3	4	3	2	2	5	4	4	4	2	4	4
Bad times ahead; uncertain future	2	3	2	1	1	2	1	2	1	1	2	2	2
Poor selection; quality	3	2	3	2	3	2	3	2	3	4	3	3	4

Responses to the query: "Why do you say so?" following the question on Table 25.
+ : May add to more than 100% due to multiple mentions.

CHART 26C - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS



EXPLANATORY CHARTS

CHART 1 - RECENT CHANGES

THE INDEX OF CONSUMER SENTIMENT

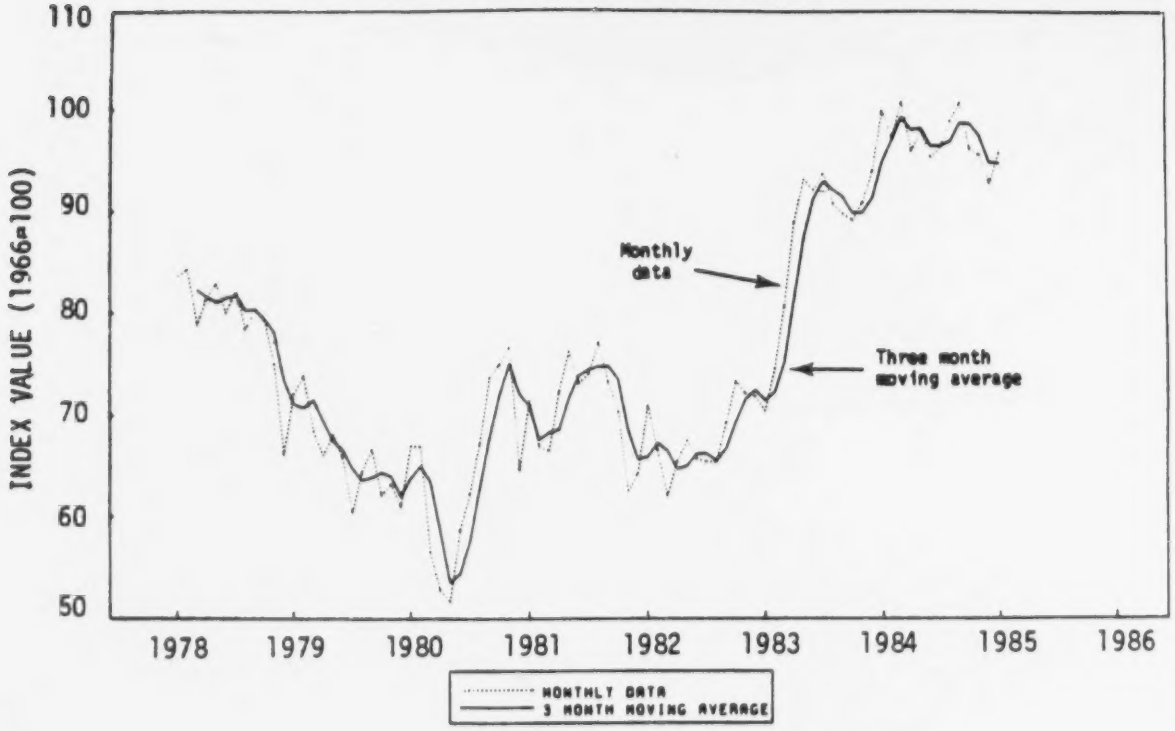
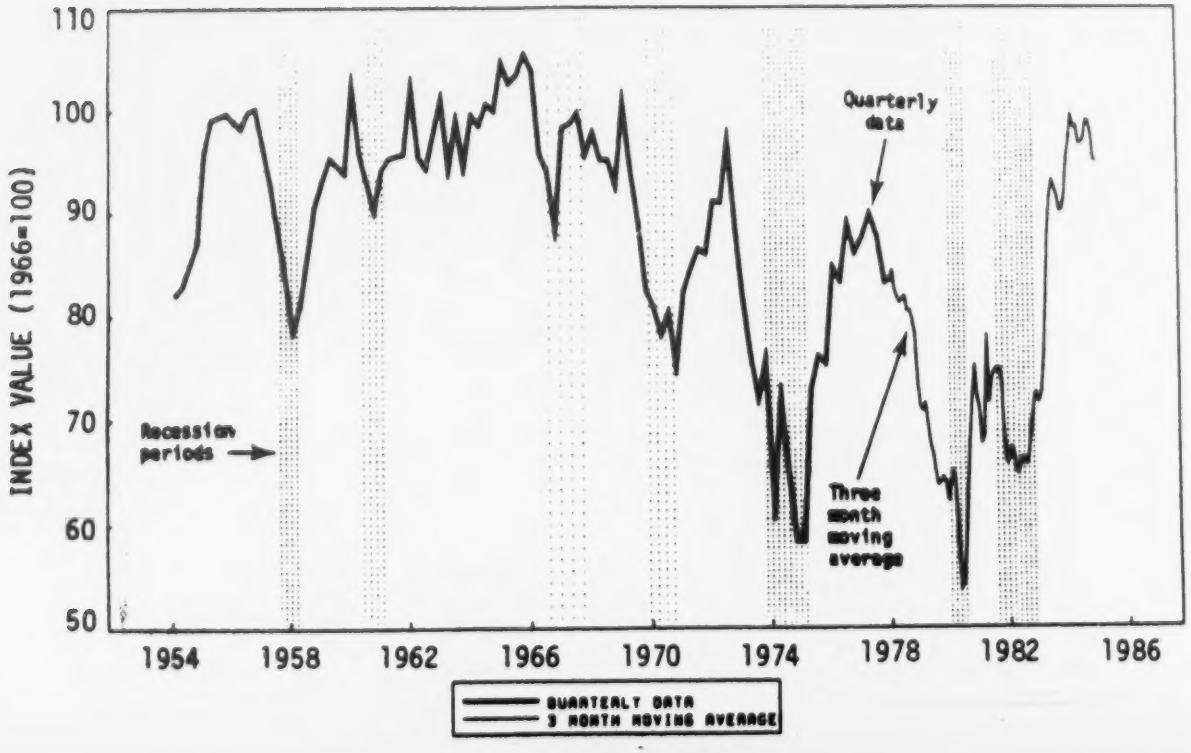


CHART 1 - HISTORICAL SERIES

THE INDEX OF CONSUMER SENTIMENT



DESCRIPTION OF CHARTS

DATA POINTS

QUARTERLY DATA: Data collected by surveys conducted at three month intervals before 1978.

MONTHLY DATA: Data collected by surveys conducted each month since January of 1978.

THREE-MONTH MOVING AVERAGE: Each point plotted represents the average of the three monthly observations ending at the date plotted.

TIME SCALE

Each tic mark on the time scale represents the month of January for the indicated year.

RECESSION PERIODS

November	1948 - October	1949
July	1953 - May	1954
August	1957 - April	1958
April	1960 - February	1961
June	1966 - November	1967*
December	1969 - November	1970
November	1973 - March	1975
January	1980 - July	1980
July	1981 - November	1982

Recession dates are determined by the National Bureau of Economic Research.

RECESSION PERIOD: Reduction in the national output of goods and services, generally lasting at least two quarters

*GROWTH RECESSION: Retardation in the rate of growth of output and employment (usually followed by a recession and always the initial stage of a recession).

RECOMMENDED ALLOWANCE FOR SAMPLING ERROR OF A PERCENTAGE
(Sampling Error Allowance in Percentage Points[1])

For Estimated Percentage Near	Number of Interviews											
	100	200	300	400	500	750	1000	1250	1500	2000	2500	3000
1% or 99%	2.2	1.6	1.3	1.1	1.0	0.8	0.7	0.6	0.6	0.5	0.4	0.4
5% or 95%	4.9	3.5	2.8	2.4	2.2	1.8	1.5	1.4	1.3	1.1	1.0	0.9
10% or 90%	6.7	4.8	3.9	3.4	3.0	2.4	2.1	1.9	1.7	1.5	1.3	1.2
20% or 80%	9.0	6.3	5.2	4.5	4.0	3.3	2.8	2.5	2.3	2.0	1.8	1.6
30% or 70%	10.3	7.3	5.9	5.1	4.6	3.7	3.2	2.9	2.6	2.3	2.0	1.9
40% or 60%	11.0	7.8	6.3	5.5	4.9	4.0	3.5	3.1	2.8	2.4	2.2	2.0
50%	11.2	7.9	6.5	5.6	5.0	4.1	3.5	3.2	2.9	2.5	2.2	2.0

[1]The figures in this table represent two standard errors. Hence, the chances are 95 in 100 that the true percentage lies within a range equal to the observed percentage, plus or minus the sampling error.

117475-2

April 1990 Monthly Survey

May 4, 1990

Surveys of Consumers

Richard T. Curtin, *Director*

Improved Personal Financial Prospects

Overall Sentiment Improves

The Index of Consumer Sentiment rose to 93.9 in the April 1990 survey, up from 91.3 one month earlier and 91.5 one year earlier. The improvement was due to more favorable assessments by consumers of their personal financial situation.

Among families with incomes of $40,000 or more, the Index rose to 103.3 in the April 1990 survey, from 98.8 in March and 99.8 in April 1989.

The Index of Consumer Expectations, the component of the Leading Indicators Index, rose to 83.9 in April from the 81.3 recorded in the prior two months, but remained below the 87.2 recorded six months ago.

Northeast Slump

The most notable exception to the overall improvement in sentiment was among residents of the Northeast. Indeed, consumer sentiment among residents of the Northeast fell to its lowest level since the start of the current expansion in the April 1990 survey, while the sentiment index for residents of the Southern and Western regions had nearly regained their cyclical peaks. At present, the difference is quite sharp, amounting to as much as 25 Index-points--75.9 in the Northeast versus 101.1 in the West, 100.1 in the South, and 95.6 in the North Central.

To be sure, not only has sentiment been less favorable in the Northeast in recent months, it also has traced a more volatile course. Last November the Index among residents of the Northeast fell to 77.5, subsequently rebounded to 91.0 by January 1990, and then return to the mid 70s by April. While it is true that a one-month decline in a volatile series probably overstates the problem, the volatile trend does indicate a heightened sense of uncertainty about economic prospects now prevalent among residents of the Northeast.

Personal Financial Prospects Viewed Very Favorably

American families not only reported that their current financial situation had improved in the April 1990 survey, they also expected further improvement during the year ahead.

Improvement in their current financial situation was reported by 46 percent of all families in the April 1990 survey, up from 43 percent one month earlier and the recent low of 38 percent recorded in February. The April 1990 reading was the most favorable since mid 1988.

The improvement in their financial situation was due to more favorable price and income trends. Complaints about rising prices fell to 13 percent in April from 15 percent one month earlier and 17 percent two months earlier. Income increases were reported by 34 percent of all families in the April 1990 survey, up from 30 percent in February; at the same time, reports of income declines fell to 13 from 16 percent.

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Families viewed financial prospects for the year ahead quite favorably. Among all families in the April 1990 survey, 45 percent expected their personal financial situation to improve during the year ahead, up from 37 percent one month earlier and 41 percent one year earlier. Although barely above the 44 percent recorded in March 1984, the April 1990 reading of 45 percent was the highest recorded during the current expansion.

Inflation Rate Expected to Ease

Consumers expected the rate of inflation to average 4.5% during the year ahead in the April 1990 survey, down from 4.9% one month earlier and 5.4% at the start of the year. These data indicate that the adverse impact on food and energy prices from the winter freeze has now been fully discounted by consumers.

Outlook for Economy: Sluggish Growth

The April survey recorded very little change in consumers assessments of the national economy. For the third consecutive month, more families thought that the national economy worsened rather than improved during the past year, by the margin of 44 to 38 percent in April. And the majority of consumers expected the national economy to continue on the same course of sluggish economic growth during the year ahead. Following the very dismal fourth quarter, favorable expectations did improve somewhat during the past few months, but only to a small degree. In the April 1990 survey, 24 percent expected the national economy to improve, up from 19 percent two months ago, while the proportion that expected worsening conditions fell to 17 from 23 percent.

Nearly half (49 percent) of all families expected good times financially in the country as a whole during the year ahead, just above the 48 percent recorded one month earlier and equal to the year earlier figure.

Unemployment Still Top Concern

The majority of families in the April 1990 survey expected the national unemployment rate to remain largely unchanged during the year ahead. On the margin, however, more than three times as many respondents expected increases in the unemployment rate rather than decreases (36 versus 11 percent). This view has shown little change since the start of the year, and is more negative than recorded in 1989.

Interest Rates Expected To Edge Upward

Interest rates were expected to increase by 55 percent of all families in the April 1990 survey, up from 51 percent in March and 45 percent at the start of the year. Although interest rate expectations have grown less favorable since January 1990, they are not nearly as unfavorable in April 1990 as in April 1989, when 75 percent expected interest rate increases.

Buying Attitudes Remain Favorable

Attitudes toward buying conditions for vehicles, homes, and large household durables remained favorable in the April 1990 survey. These favorable buying attitudes continue to be based almost exclusively on the availability of lower and discounted prices.

Durables. Favorable attitudes toward buying conditions for furniture, appliances and home electronics were held by 78 percent of all families in the April 1990 survey, slightly ahead of the 76 percent recorded one month earlier and the 75 percent recorded one year earlier. These favorable assessments continue to be supported by favorable perceptions of market prices. The availability of price discounts was reported by 35 percent of all families in April, unchanged from the prior two months, and somewhat above the 31 percent recorded a year earlier.

Homes. Favorable home buying attitudes were held by 68 percent of all families in the April 1990 survey, up from 66 percent one month earlier and 58 percent one year earlier. The sharp improvement from one year ago was due to both more favorable perceptions of prices and interest rates.

References to the availability of lower prices for homes were made by 27 percent of all families in the April 1990 survey, just below the all-time record of 29 percent recorded in the prior month, and substantially above the 17 percent recorded one year earlier.

Complaints about high mortgage interest rates fell to 14 percent in April 1990 from 18 percent one month earlier and 28 percent one year earlier.

Vehicles. Favorable car buying attitudes were held by 66 percent of all families in the April 1990 survey, just ahead of the 65 percent recorded both one month and one year earlier.

References to price discounts were made by 45 percent of all families in the April 1990 survey, just below the all-time record of 48 percent recorded in each of the prior three months, and well above the 32 percent recorded one year earlier.

* * *

The April 1990 survey included 504 completed interviews conducted between April 1 and April 27, 1990.

SURVEYS OF CONSUMERS

APRIL 1990

The April 1990 survey was the 261st in a series of Surveys of Consumers conducted by the Survey Research Center at The University of Michigan. Initiated in 1946, these periodic surveys provide regular assessments of consumer attitudes and expectations, and are used to evaluate economic trends and prospects. The surveys are designed to explore why changes in consumer attitudes and expectations occur, and how these changes influence consumer spending and saving decisions.

All surveys are subject to sampling error because not all members of the population are interviewed. Most results for the total sample will differ by no more than 5 percentage points in either direction from what would have been obtained by using the same methods on the entire population. See the back of this book for sampling error information.

While every effort is made to accurately measure consumer attitudes and expectations, factors other than sampling may also affect the accuracy of these (and other) findings. These factors may include effects of the question wording, the ability of respondents to articulate answers and opinions, refusal to participate in the survey, and incomplete coverage of the population. There are no standard measures of these effects, but their presence should be acknowledged when using these and all other survey data. While measurement effects are present in all surveys, a noted advantage of time-series data is that the non-sampling influences remain relatively constant across samples.

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TABLE OF CONTENTS

TABLE	TITLE
1.	The Index of Consumer Sentiment
2.	Index of Consumer Sentiment within Region and Age Subgroups
3.	Components of the Index of Consumer Sentiment
4.	Current Financial Situation Compared to a Year Ago
5.	Selected Reasons for Opinions About Personal Financial Situation
6.	Expected Change in Financial Situation
7.	Trend in Personal Financial Situation
8.	Expected Family Income Change During the Next 12 Months
9.	Expected Change in Real Family Income
10.	News Heard of Recent Changes in Business Conditions
11.	Selected Items of News Heard of Recent Changes in Business Conditions
12.	Current Business Conditions Compared to a Year Ago
13.	Expected Change in Business Conditions in a Year
14.	Trend in Past and Expected Changes in Business Conditions
15.	Business Conditions Expected During the Next 12 Months
16.	Business Conditions Expected During the Next 5 Years
17.	Expected Change in Unemployment
18.	Expected Change in Interest Rates
19.	Expected Change in Prices During the Next 12 Months
20.	Opinions About the Government's Economic Policy
21.	Buying Conditions for Large Household Goods
22.	Selected Reasons About Buying Conditions for Large Household Goods
23.	Buying Conditions for Houses
24.	Selected Reasons for Opinions About Buying Conditions for Houses
25.	Buying Conditions for Cars
26.	Selected Reasons for Opinions About Buying Conditions for Cars

CHART 1 - RECENT CHANGES
THE INDEX OF CONSUMER SENTIMENT

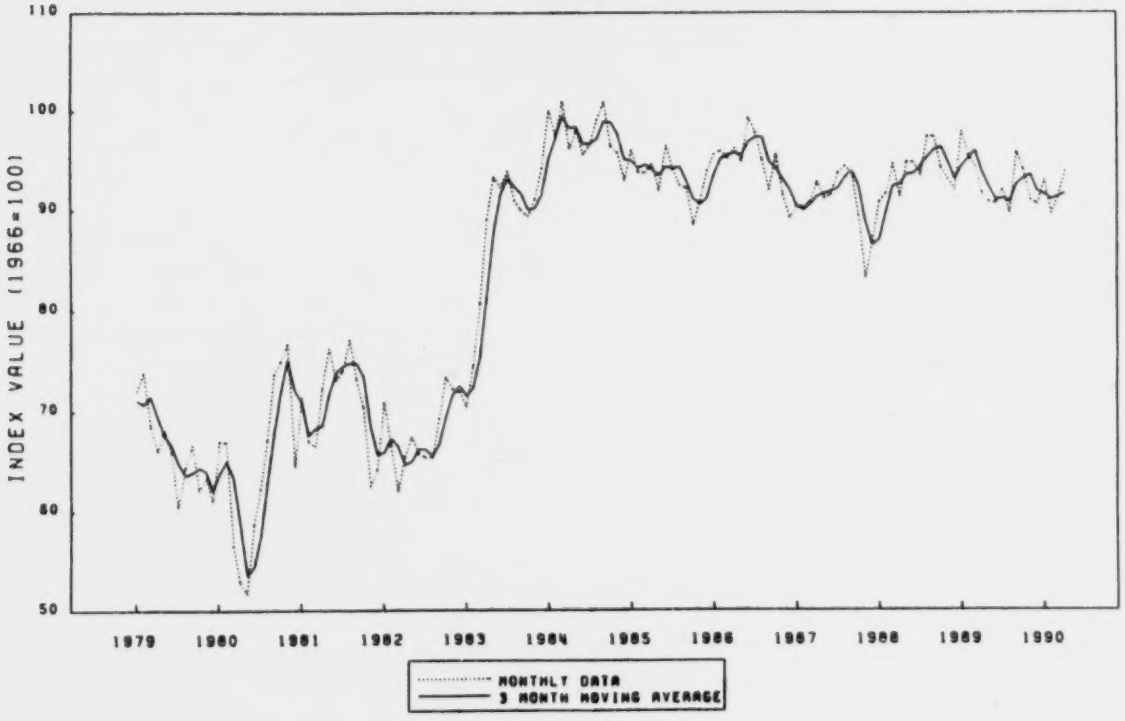


CHART 1 - HISTORICAL SERIES
THE INDEX OF CONSUMER SENTIMENT

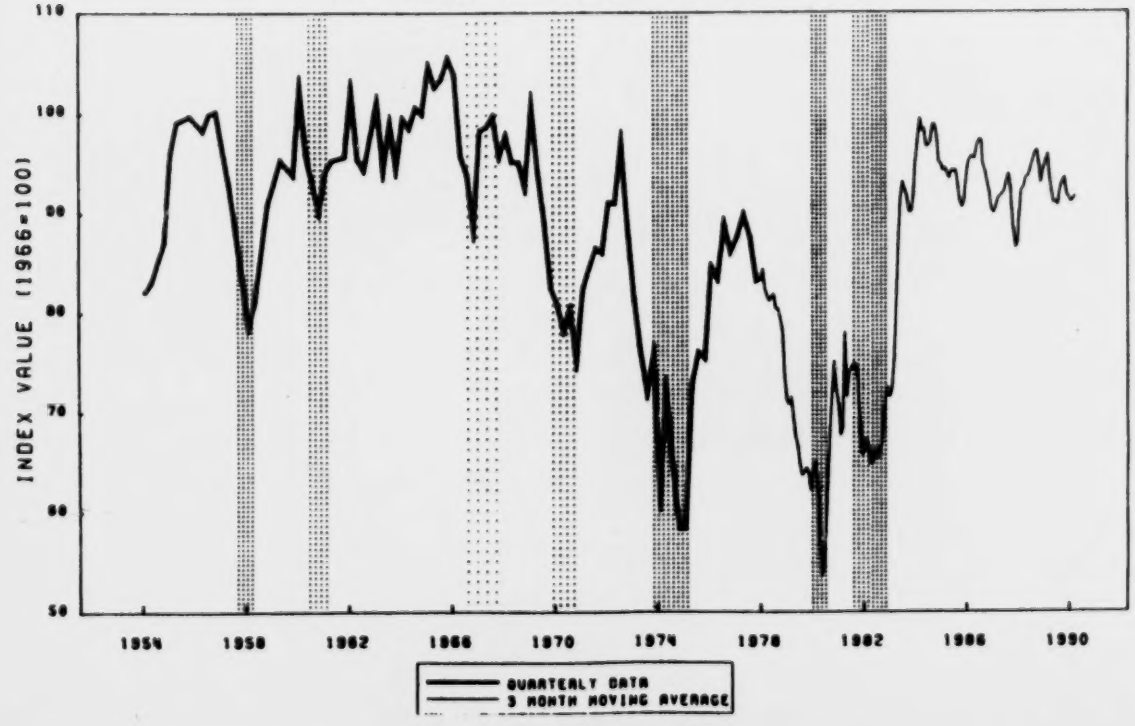


TABLE 1
THE INDEX OF CONSUMER SENTIMENT

DATE OF SURVEY	All families	Families with incomes over $30,000	Families with incomes over $40,000
April 1987	92.8	98.5	103.1
May 1987	91.1	97.7	99.2
June 1987	91.5	102.9	102.9
July 1987	93.7	102.5	104.0
August 1987	94.4	104.4	109.1
September 1987	93.6	100.6	104.3
October 1987	89.3	99.9	101.8
November 1987	83.1	87.7	90.5
December 1987	86.8	94.5	96.1
January 1988	90.8	99.0	99.9
February 1988	91.6	98.1	100.8
March 1988	94.6	103.7	104.6
April 1988	91.2	99.1	99.6
May 1988	94.8	106.6	108.3
June 1988	94.7	102.3	102.7
July 1988	93.4	100.5	103.9
August 1988	97.4	105.1	104.2
September 1988	97.3	102.8	105.4
October 1988	94.1	103.0	103.7
November 1988	93.0	102.0	101.0
December 1988	91.9	97.0	99.5
January 1989	97.9	108.4	106.8
February 1989	95.4	104.6	109.6
March 1989	94.3	98.6	100.0
April 1989	91.5	99.1	99.8
May 1989	90.7	100.6	100.3
June 1989	90.6	95.2	95.4
July 1989	92.0	103.2	101.9
August 1989	89.6	93.5	93.1
September 1989	95.8	104.1	103.0
October 1989	93.9	100.2	103.6
November 1989	90.9	99.4	100.5
December 1989	90.5	100.0	104.1
January 1990	93.0	99.9	103.2
February 1990	89.5	93.9	91.8
March 1990	91.3	98.4	98.8
April 1990	93.9	99.8	103.3

CHART 2A - HISTORICAL SERIES

INDEX OF CONSUMER SENTIMENT WITHIN REGION SUBGROUPS

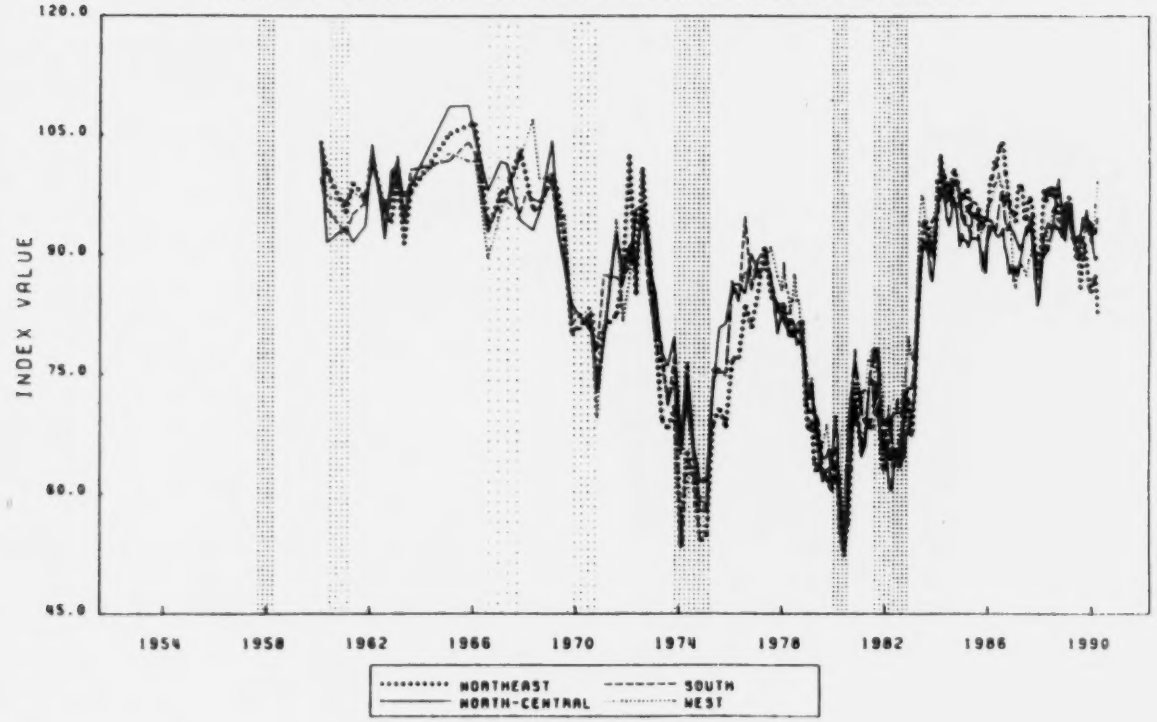


CHART 2B - HISTORICAL SERIES

INDEX OF CONSUMER SENTIMENT WITHIN AGE SUBGROUPS

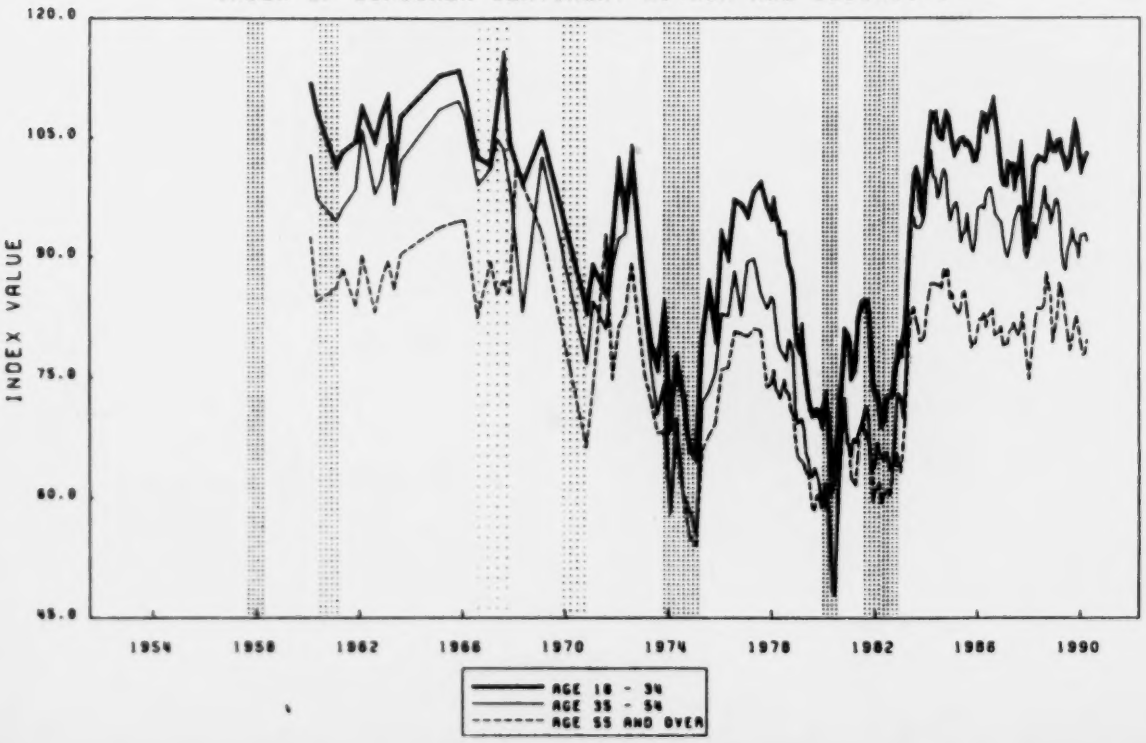


TABLE 2

INDEX OF CONSUMER SENTIMENT WITHIN REGION AND AGE SUBGROUPS

DATE OF SURVEY		CENSUS REGION				AGE OF RESPONDENT		
		North East	North Central	South	West	18-34	35-54	55+
April	1987	99.4	91.7	93.7	87.2	99.0	95.1	83.5
May	1987	91.3	92.9	92.1	87.1	99.5	92.8	82.1
June	1987	92.5	92.2	91.5	89.7	99.0	95.5	80.0
July	1987	100.1	95.7	93.8	85.2	103.0	97.8	80.2
August	1987	99.0	91.0	95.2	93.2	103.3	95.8	80.8
September	1987	92.2	94.7	94.9	91.5	104.1	95.4	82.6
October	1987	93.8	87.2	88.3	89.1	92.0	89.9	86.2
November	1987	83.9	79.6	87.9	79.4	91.7	86.6	70.8
December	1987	83.4	83.6	90.4	89.2	94.1	92.9	73.6
January	1988	99.8	91.3	87.6	88.5	98.3	93.6	80.1
February	1988	93.7	92.1	92.8	86.3	102.5	90.3	79.9
March	1988	101.2	92.9	91.6	95.3	103.5	98.9	80.0
April	1988	94.9	93.9	88.6	89.0	100.0	87.5	86.6
May	1988	99.1	95.5	91.1	97.3	104.2	95.4	84.7
June	1988	98.1	91.2	95.9	95.2	103.1	102.0	79.5
July	1988	98.3	92.0	91.8	94.0	99.6	93.0	86.6
August	1988	95.7	100.9	94.4	98.5	103.6	101.7	86.3
September	1988	95.2	101.9	93.3	97.6	106.1	93.3	91.4
October	1988	91.8	96.1	92.9	96.6	105.8	94.6	82.0
November	1988	95.8	90.6	90.5	98.9	100.4	94.3	82.2
December	1988	90.8	90.2	96.1	88.0	103.7	97.1	73.9
January	1989	96.9	94.2	99.9	102.2	105.8	100.3	86.7
February	1989	103.5	99.2	88.8	93.6	104.3	94.2	86.7
March	1989	91.5	95.8	96.1	92.2	103.9	91.8	87.0
April	1989	83.9	94.6	93.4	90.3	101.0	87.5	83.8
May	1989	99.9	86.7	87.3	94.3	102.2	86.9	81.9
June	1989	84.7	91.2	94.4	89.8	100.0	90.4	81.1
July	1989	87.2	91.9	95.6	91.8	101.9	95.8	78.0
August	1989	85.2	93.6	85.0	95.7	105.7	88.9	76.1
September	1989	97.1	98.8	94.0	92.7	107.1	96.2	84.9
October	1989	92.1	89.6	99.5	92.6	107.3	90.5	83.9
November	1989	77.5	98.7	87.2	99.4	102.2	88.6	79.3
December	1989	87.1	89.2	93.5	90.7	99.3	90.3	80.4
January	1990	91.0	94.2	93.8	92.2	101.4	99.5	78.3
February	1990	82.0	88.2	91.5	95.1	104.9	88.2	74.7
March	1990	89.5	85.5	92.5	101.5	101.7	91.4	81.1
April	1990	75.9	95.6	100.1	101.1	102.8	96.0	83.6

CHART 3 - RECENT CHANGES
CURRENT AND EXPECTED COMPONENTS

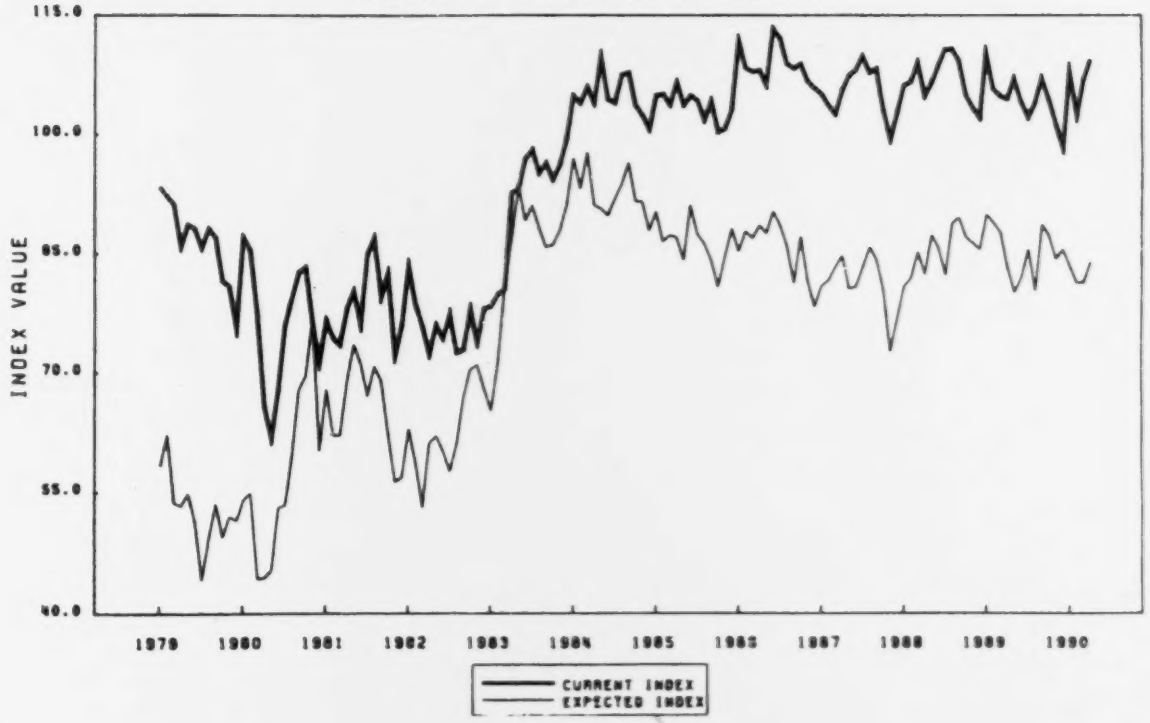


CHART 3 - HISTORICAL SERIES
CURRENT AND EXPECTED COMPONENTS

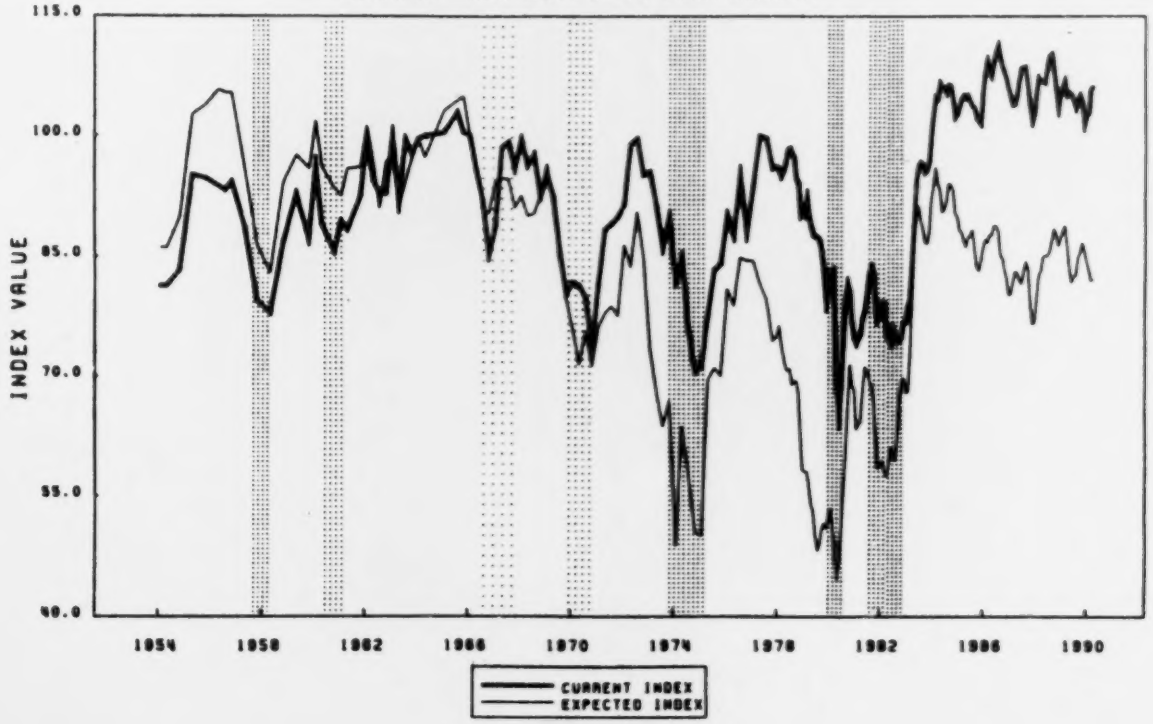


TABLE 3
COMPONENTS OF THE INDEX OF CONSUMER SENTIMENT
INDEX COMPONENTS +

	Personal finances		Business conditions				
	Current	Expected	12 months	5 years	Buying conds.	Current Index	Expected Index
DATE OF SURVEY	(1)	(2)	(3)	(4)	(5)	(1,5)	(2,3,4)
April 1987	116	127	116	97	158	105.5	84.7
May 1987	117	121	114	89	161	107.4	80.6
June 1987	120	122	113	89	161	108.1	80.8
July 1987	123	123	118	94	162	109.9	83.3
August 1987	122	127	125	93	157	107.8	85.8
September 1987	119	124	122	92	162	108.3	84.2
October 1987	118	128	105	90	149	103.1	80.4
November 1987	115	118	93	80	142	99.3	72.7
December 1987	119	120	98	89	147	102.7	76.7
January 1988	122	131	110	84	154	106.2	80.9
February 1988	122	130	108	90	155	106.6	81.9
March 1988	127	133	114	96	156	109.1	85.2
April 1988	117	125	117	89	154	104.8	82.4
May 1988	111	127	125	98	165	106.5	87.3
June 1988	119	129	121	95	163	108.6	85.7
July 1988	120	128	106	96	167	110.7	82.3
August 1988	127	127	125	105	160	110.8	88.8
September 1988	127	133	125	102	157	109.4	89.5
October 1988	114	124	129	97	158	105.0	87.0
November 1988	112	128	122	97	156	103.3	86.3
December 1988	114	127	119	98	150	102.0	85.5
January 1989	121	131	128	103	165	110.3	89.9
February 1989	120	130	128	99	154	105.7	88.8
March 1989	116	131	123	98	156	104.8	87.6
April 1989	113	130	113	91	158	104.4	83.2
May 1989	121	125	107	89	157	107.1	80.1
June 1989	115	123	115	90	155	104.1	82.0
July 1989	112	123	124	96	152	102.1	85.5
August 1989	114	126	109	88	156	103.9	80.3
September 1989	117	129	127	101	161	107.1	88.6
October 1989	114	134	124	93	156	104.4	87.2
November 1989	116	130	116	92	146	101.2	84.3
December 1989	115	129	115	99	140	98.2	85.5
January 1990	116	124	119	92	164	108.0	83.4
February 1990	108	126	111	90	157	102.3	81.3
March 1990	117	125	108	93	160	106.9	81.3
April 1990	122	136	110	92	162	109.4	83.9

(1) See Table 4. (2) See Table 6. (3) See Table 15.
(4) See Table 16. (5) See Table 21.
+ : Percent saying "GOOD TIMES" (or "BETTER"), minus percent saying "BAD TIMES" (or "WORSE"), plus 100.

CHART 4 - RECENT CHANGES

CURRENT FINANCIAL SITUATION COMPARED WITH A YEAR AGO

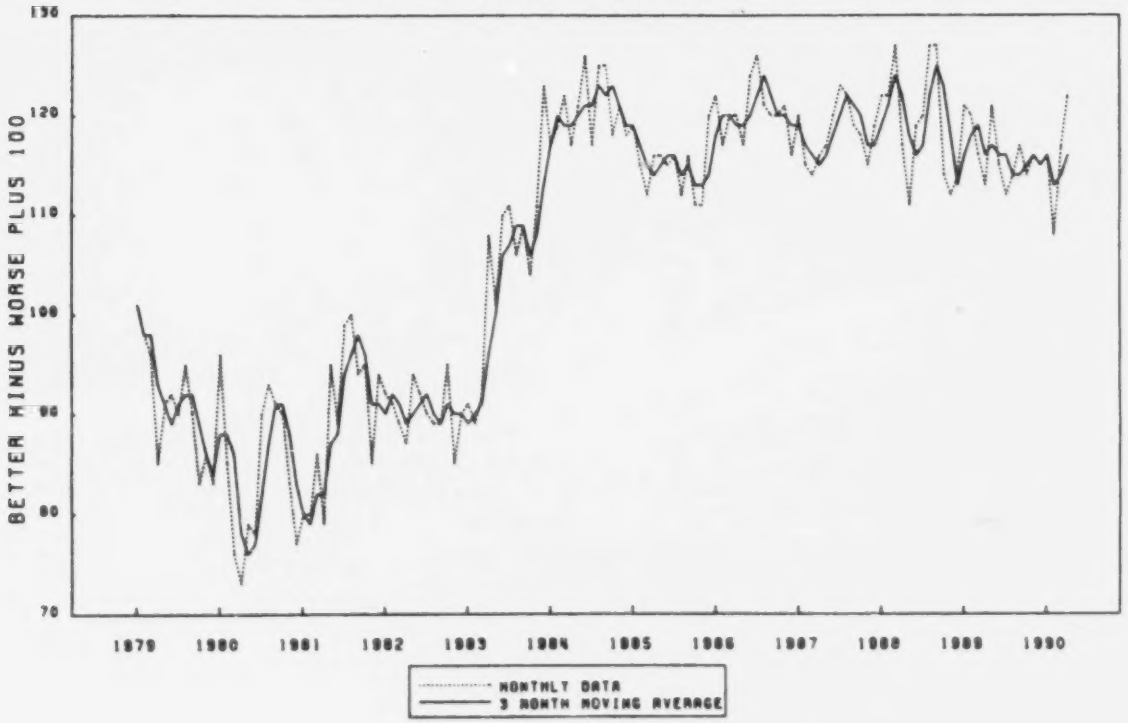


CHART 4 - HISTORICAL SERIES

CURRENT FINANCIAL SITUATION COMPARED WITH A YEAR AGO

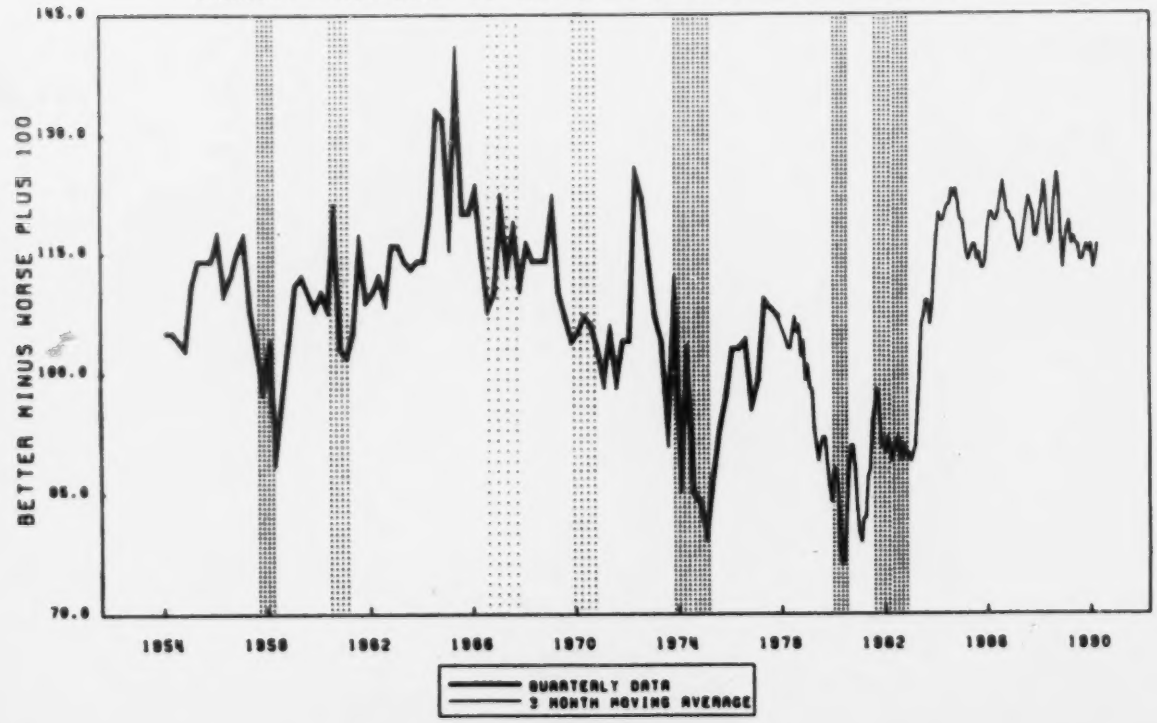


TABLE 4

CURRENT FINANCIAL SITUATION COMPARED TO A YEAR AGO

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
BETTER OFF	42%	45%	38%	41%	41%	42%	42%	42%	41%	43%	38%	43%	46%
SAME	29	31	38	30	32	32	30	32	32	30	32	30	29
WORSE OFF	29	24	23	29	27	25	28	26	26	27	30	26	24
DK,NA	*	*	1	*	*	1	*	*	1	*	*	1	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "We are interested in how people are getting along financially these days. Would you say that you (and your family living there) are better off or worse off financially than you were a year ago?"

* : Less than half of one percent.

CHART 5A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT PERSONAL FINANCIAL SITUATION

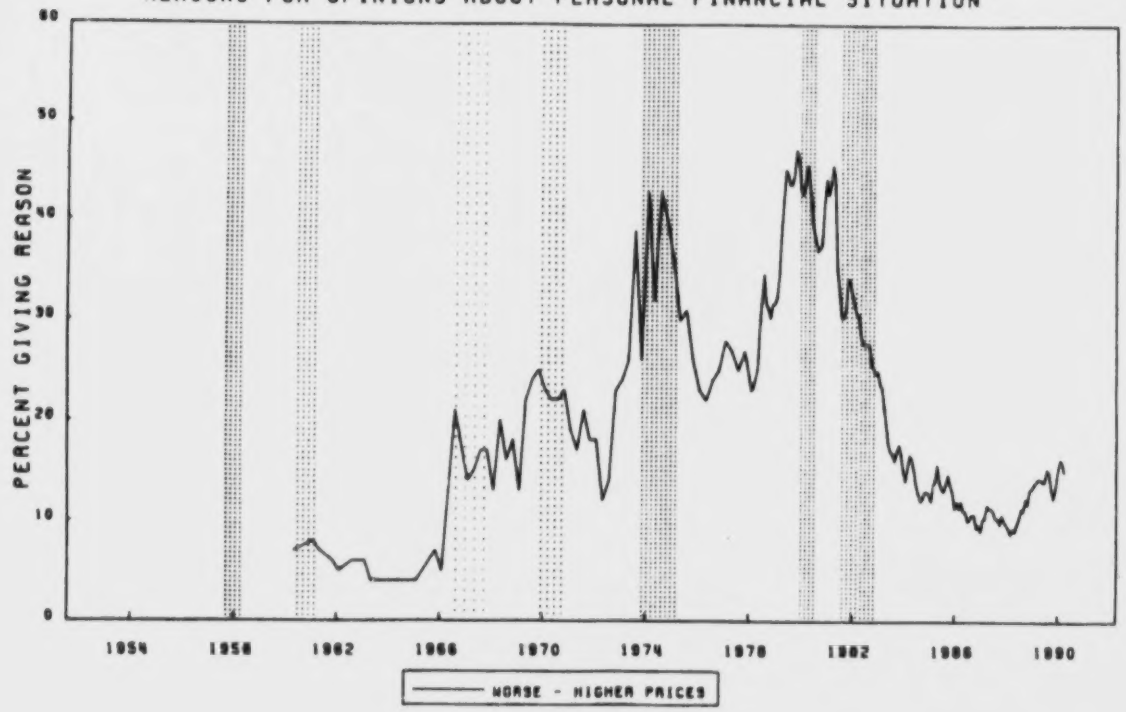


CHART 5B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT PERSONAL FINANCIAL SITUATION

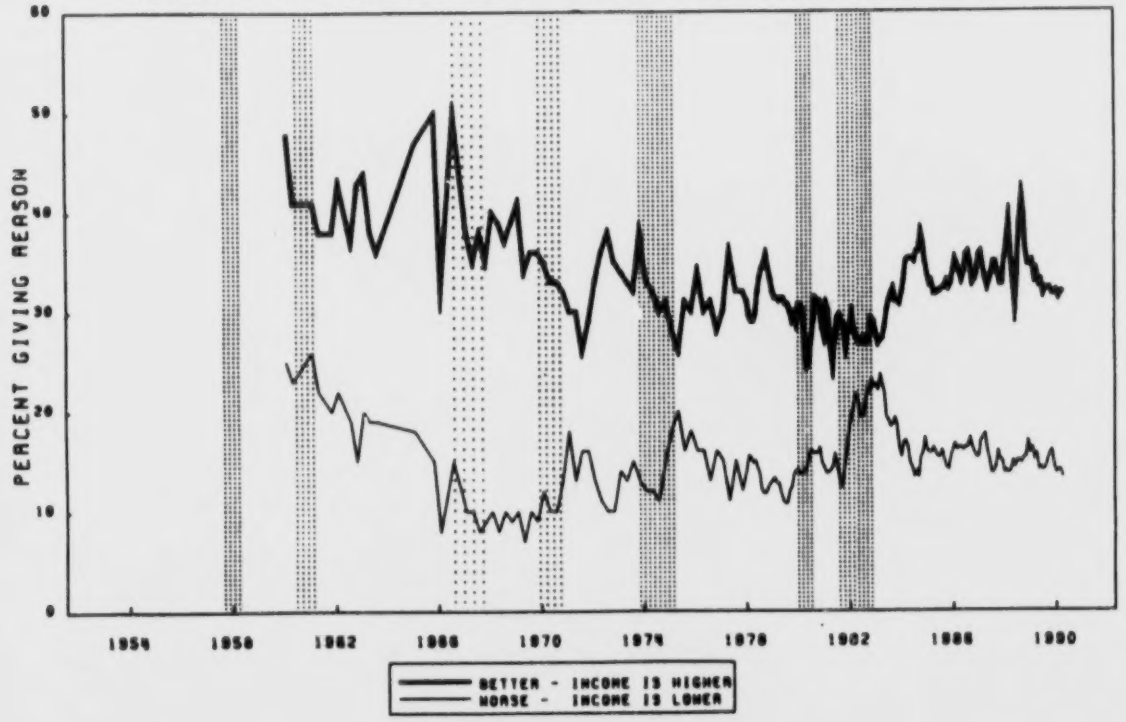


TABLE 5

SELECTED REASONS FOR OPINIONS ABOUT PERSONAL FINANCIAL SITUATION +

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
BETTER OFF THAN YEAR AGO:													
Income is higher	36%	32%	31%	32%	34%	31%	32%	32%	31%	33%	30%	32%	34%
WORSE OFF THAN YEAR AGO:													
Income is lower	16	13	14	15	14	16	17	15	11	15	16	11	13
Higher prices	16	12	14	16	16	13	11	13	16	16	17	15	13

Responses to the query: "Why do you say so?" following the question on Table 4.

+ : May add to more than 100% due to multiple mentions.

CHART 6 - RECENT CHANGES

EXPECTED CHANGE IN FINANCIAL SITUATION

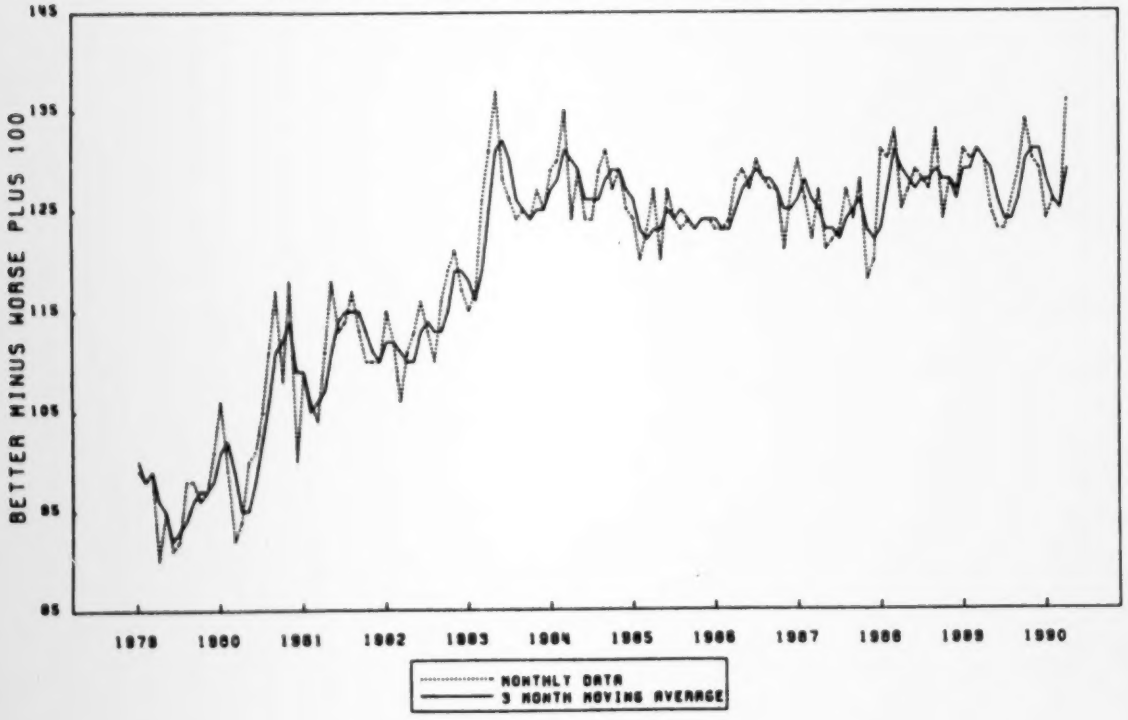


CHART 6 - HISTORICAL SERIES

EXPECTED CHANGE IN FINANCIAL SITUATION

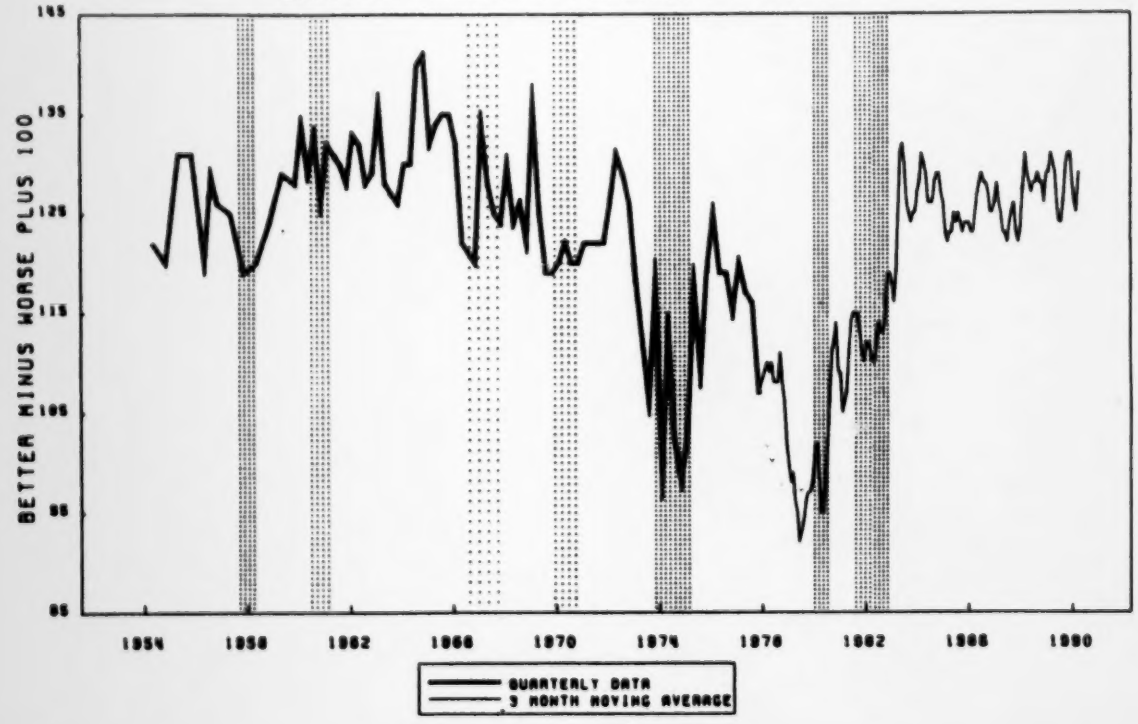


TABLE 6

EXPECTED CHANGE IN FINANCIAL SITUATION

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
BETTER OFF	41%	39%	34%	35%	37%	38%	41%	40%	37%	35%	35%	37%	45%
SAME	46	45	52	50	49	49	47	48	50	51	53	49	44
WORSE OFF	11	14	11	12	11	9	7	10	8	11	9	12	9
DK,NA	2	2	3	3	3	4	5	2	5	3	3	2	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "Now looking ahead—do you think that a year from now you (and your family living there) will be better off financially, or worse off, or just about the same as now?"

CHART 7 - RECENT CHANGES

TREND IN PERSONAL FINANCIAL SITUATION

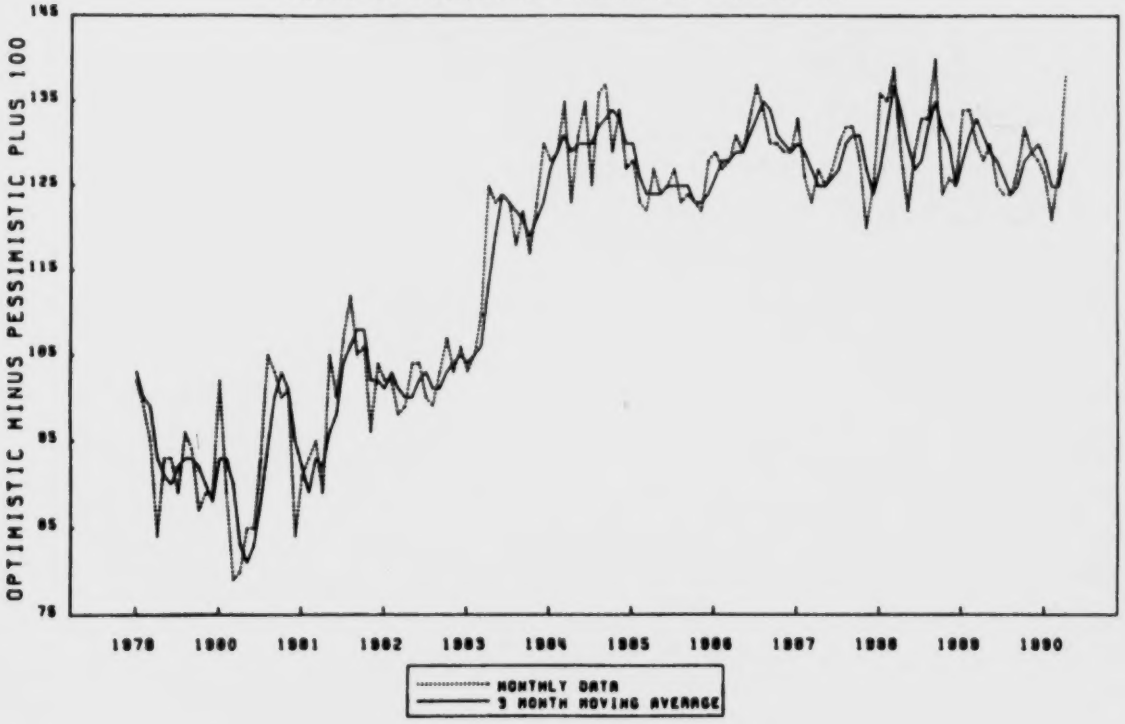


CHART 7 - HISTORICAL SERIES

TREND IN PERSONAL FINANCIAL SITUATION

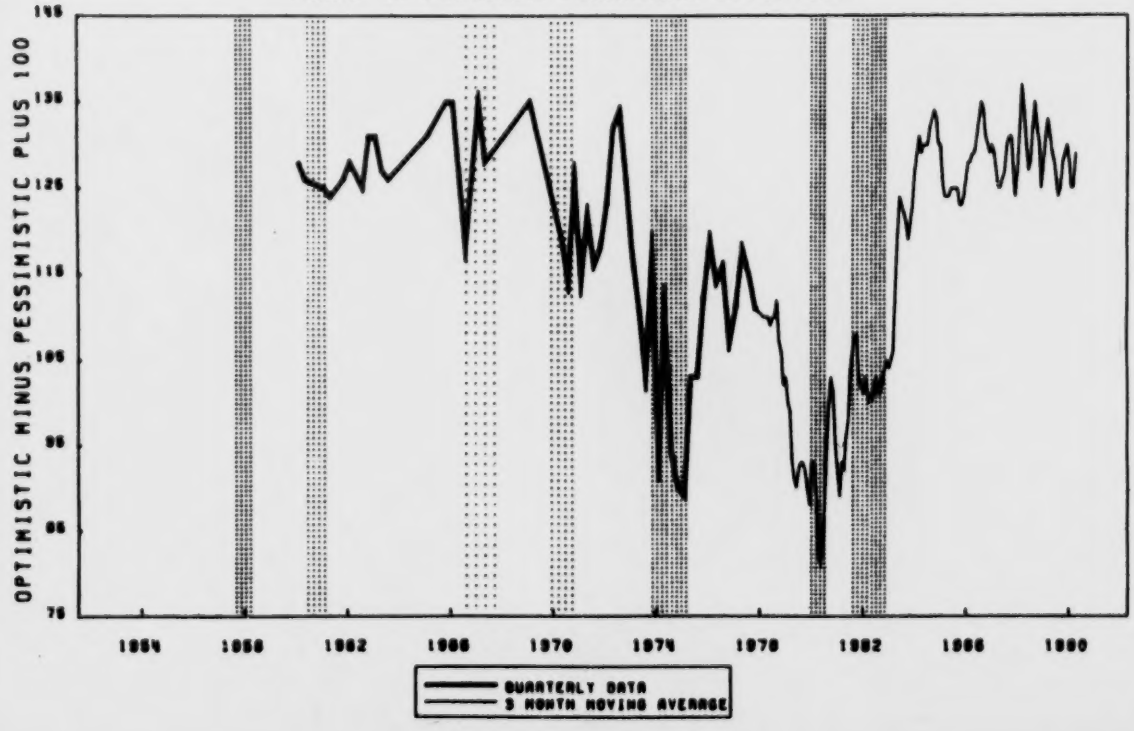


TABLE 7

TREND IN PERSONAL FINANCIAL SITUATION

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
PERSONAL FINANCIAL PROGRESS:													
Continuous increase (a)	21%	21%	16%	19%	20%	24%	22%	21%	19%	20%	17%	20%	24%
Intermittant increase (b)	27	31	28	28	25	24	27	26	28	28	26	28	29
Remain unchanged (c)	17	14	22	18	20	19	17	20	18	17	21	17	16
Intermittant decline (d)	13	18	15	15	16	17	12	14	16	16	17	15	11
Continuous decline (e)	7	4	4	8	5	4	5	4	3	6	5	6	4
Mixed change (f)	13	9	11	9	10	8	11	13	11	9	10	10	13
DK,NA	2	3	4	3	4	4	6	2	5	4	4	4	3
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

Combination of the responses to the questions on Tables 4 and 6.

Key: (a) Better off financially than a year ago/Better off a year from now
(b) Better/Same or Same/Better
(c) Same/Same
(d) Worse/Same or Same/Worse
(e) Worse/Worse
(f) Worse/Better or Better/Worse

CHART 8 - RECENT CHANGES

MEDIAN EXPECTED CHANGE IN FAMILY INCOME

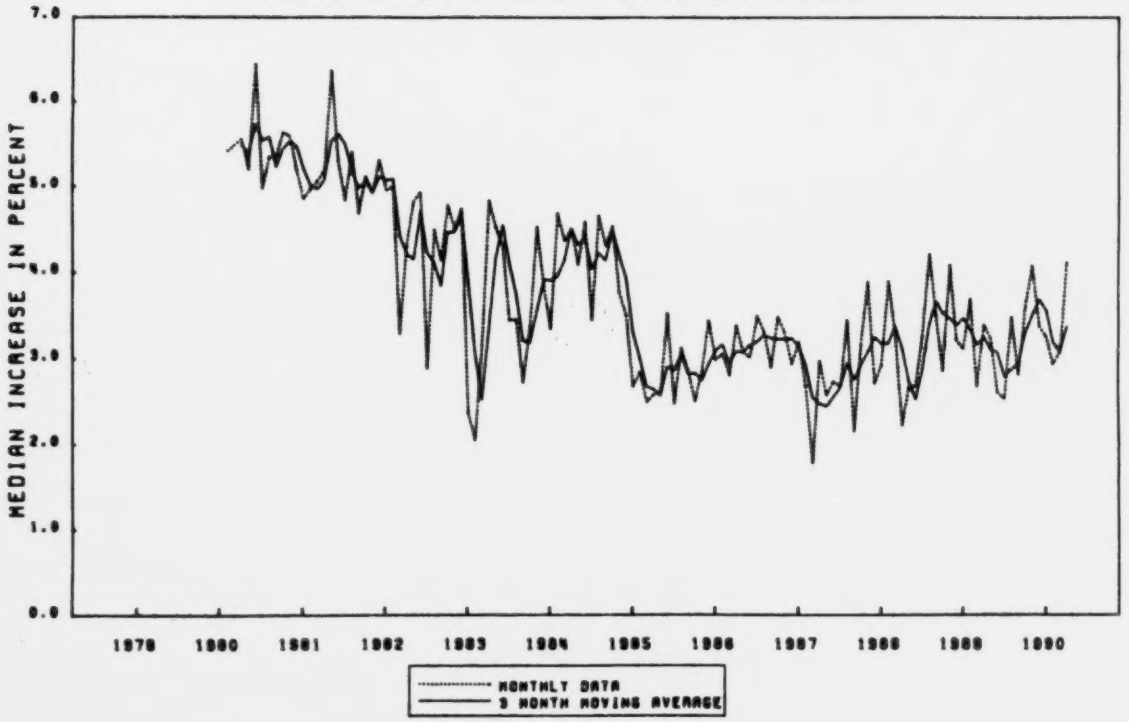


CHART 8 - HISTORICAL SERIES

MEDIAN EXPECTED CHANGE IN FAMILY INCOME

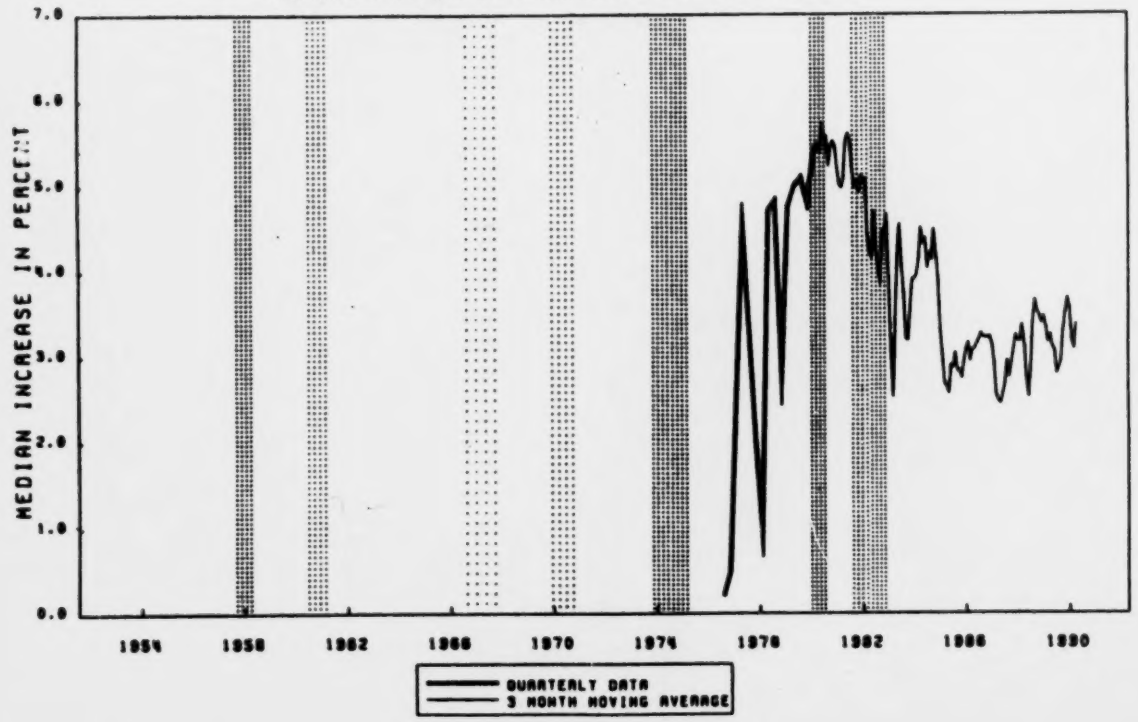


TABLE 8

EXPECTED FAMILY INCOME CHANGE DURING THE NEXT 12 MONTHS

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
EXPECT INCREASE:													
1-4%	17%	16%	18%	15%	15%	16%	15%	23%	16%	18%	17%	15%	15%
5%	12	9	11	9	13	10	12	13	12	13	12	9	13
6-9%	7	7	6	6	8	7	7	7	8	7	6	9	7
10-24%	15	17	14	16	17	15	14	16	13	14	15	16	18
25% or more	7	8	6	6	6	5	9	7	7	5	5	4	8
DK how much up	5	4	5	6	3	5	4	6	5	5	3	5	4
EXPECT SAME	23	26	27	31	26	25	25	19	26	25	30	28	27
EXPECT DOWN	12	12	12	10	12	15	12	9	12	11	11	13	7
DK,NA	2	1	1	1	*	2	2	*	1	2	1	1	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The questions were: "During the next 12 months, do you expect your (family) income to be higher or lower than during the past year?" and "By about what percent do you expect your (family) income to increase during the next 12 months?"

* : Less than half of one percent.

CHART 9 - RECENT CHANGES

INCOME OR PRICES UP MORE NEXT YEAR

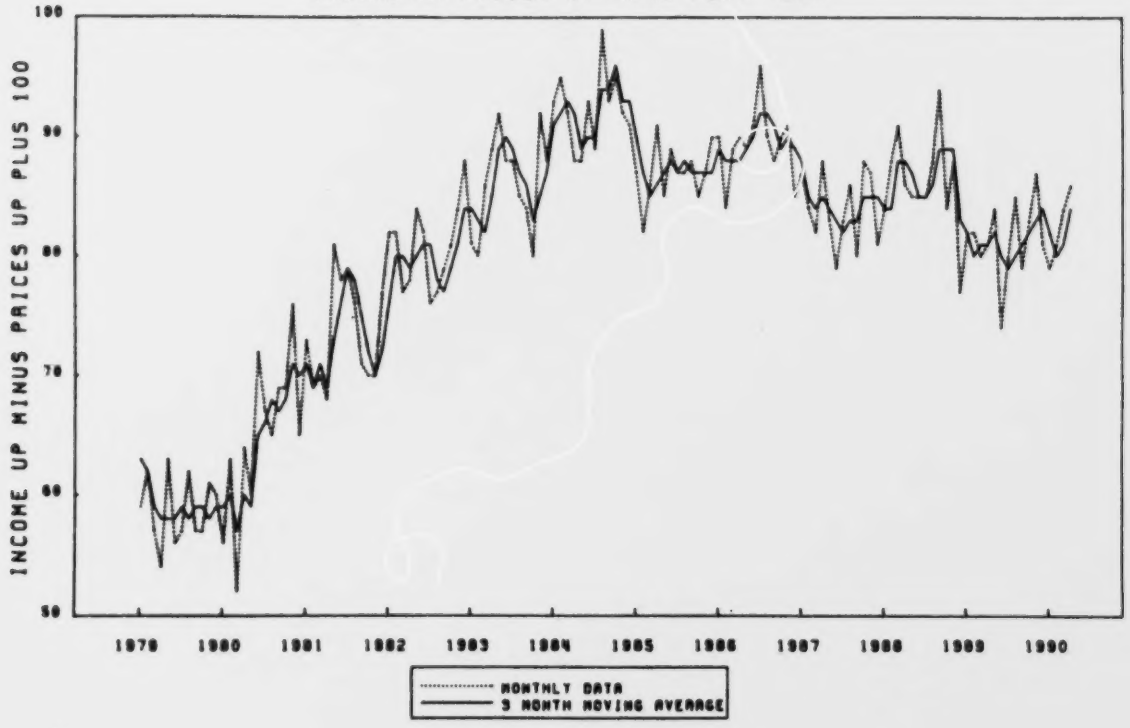


CHART 9 - HISTORICAL SERIES

INCOME OR PRICES UP MORE NEXT YEAR

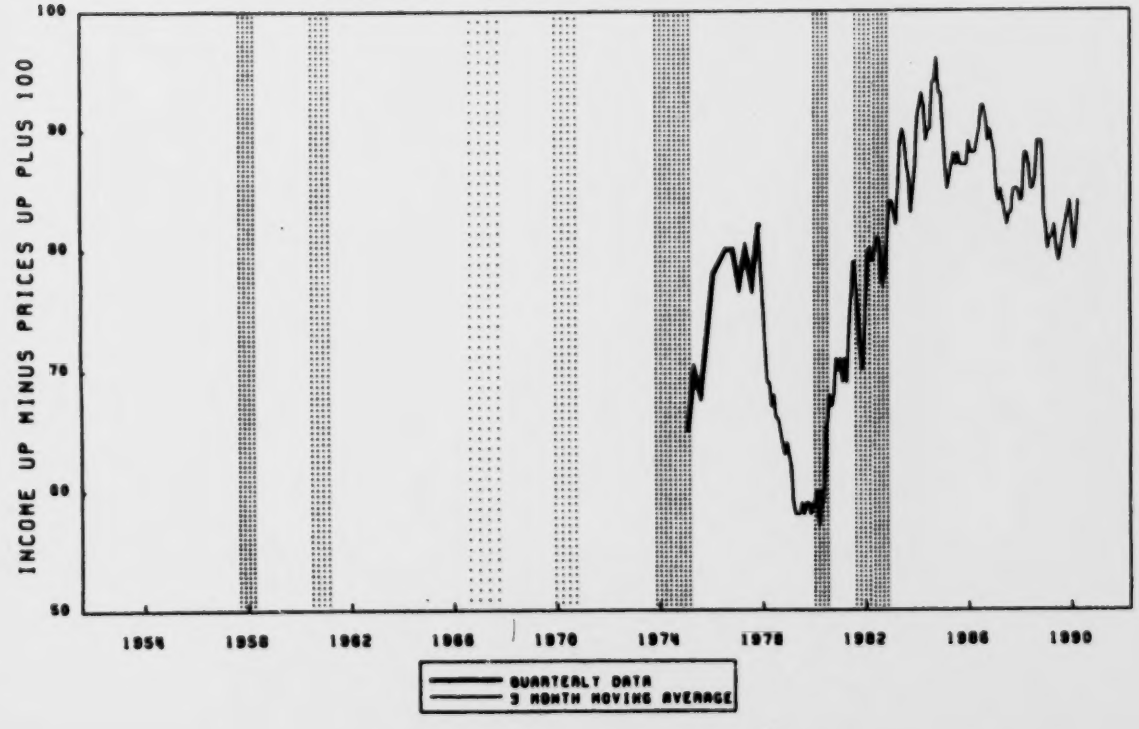


TABLE 9

EXPECTED CHANGE IN REAL FAMILY INCOME

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
INCOME UP MORE	18%	22%	16%	19%	21%	19%	20%	22%	21%	17%	17%	20%	21%
INCOME UP SAME	43	37	39	40	39	39	41	42	36	42	44	42	42
PRICES UP MORE	37	38	42	39	36	40	37	35	40	38	36	36	35
DK,NA	2	3	3	2	4	2	2	1	3	3	3	2	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "How about the next year or two—do you expect that your (family) income will go up more than prices will go up, about the same, or less than prices will go up?"

CHART 10 - RECENT CHANGES

NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS

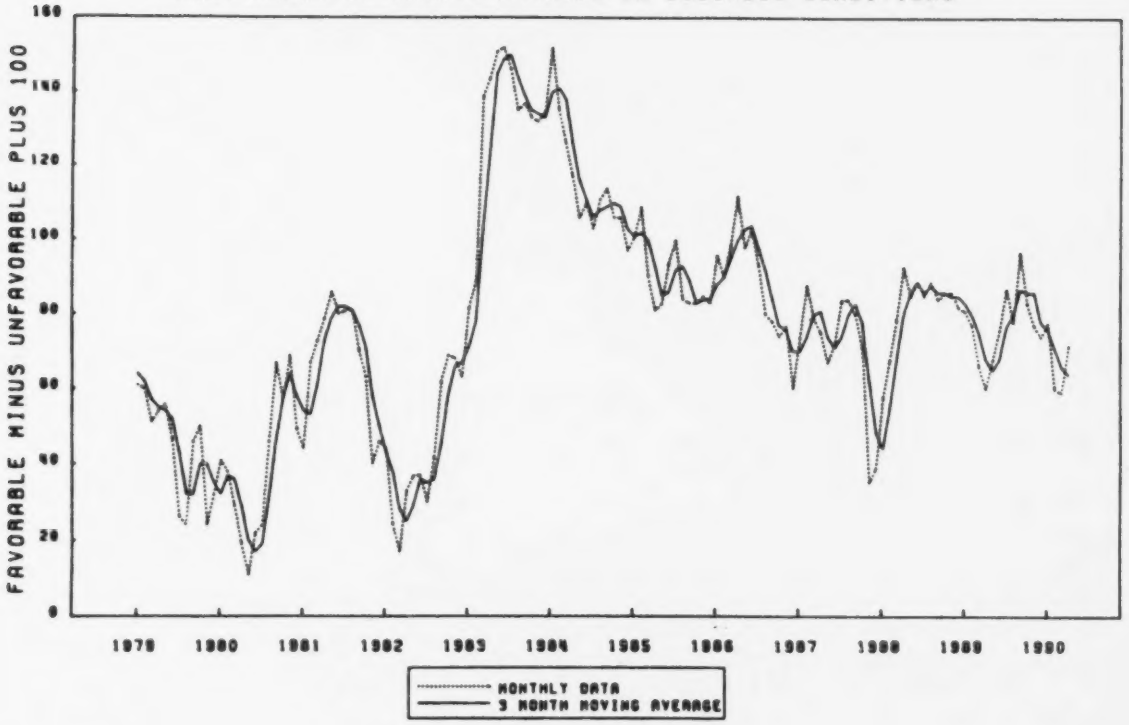


CHART 10 - HISTORICAL SERIES

NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS

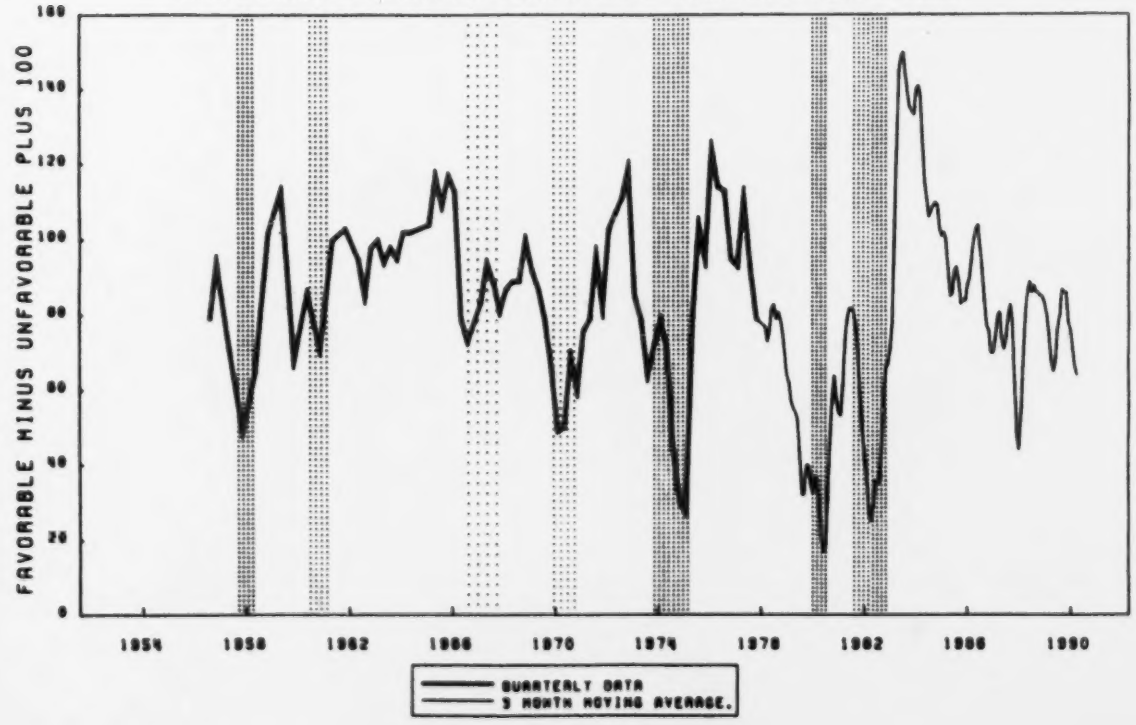


TABLE 10

NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS +

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
FAVORABLE NEWS	18%	22%	23%	28%	23%	29%	24%	22%	24%	26%	20%	21%	23%
UNFAVORABLE NEWS	58	54	47	41	45	32	41	45	50	48	60	62	51
NO MENTIONS	48	48	53	50	53	56	52	52	50	49	44	43	49

The questions were: "During the last few months, have you heard of any favorable or unfavorable changes in business conditions?" and "What did you hear?"

+ : May add to more than 100% due to multiple mentions.

CHART 11A - HISTORICAL SERIES

TYPE OF NEWS HEARD ABOUT CHANGES IN BUSINESS CONDITIONS

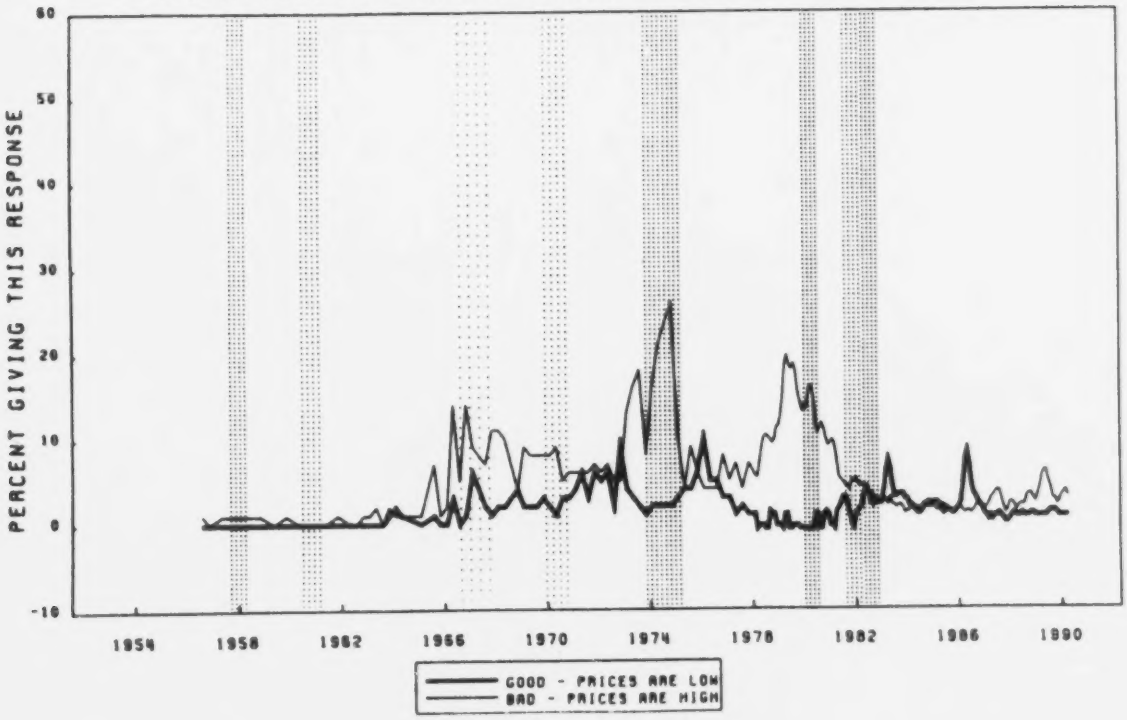


CHART 11B - HISTORICAL SERIES

TYPE OF NEWS HEARD ABOUT CHANGES IN BUSINESS CONDITIONS

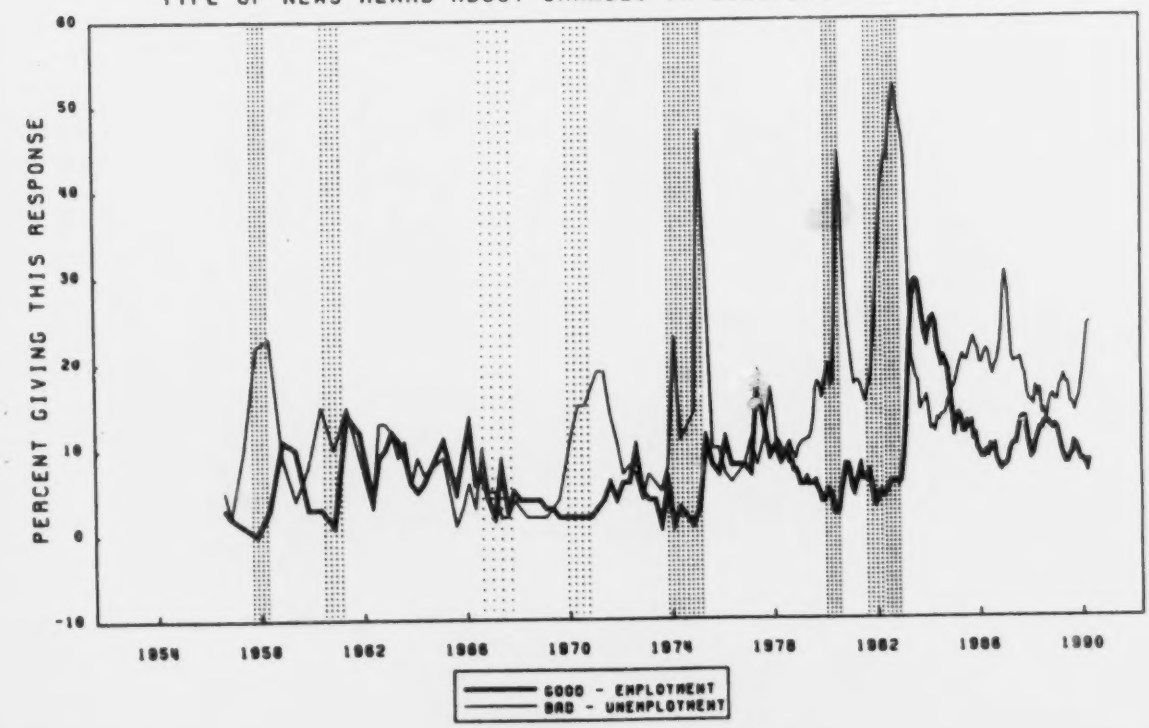


TABLE 11

SELECTED ITEMS OF
NEWS HEARD OF RECENT CHANGES IN BUSINESS CONDITIONS +

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
FAVORABLE NEWS:													
Government; elections	1%	1%	1%	*	2%	2%	1%	1%	3%	1%	2%	3%	1%
Employment	8	8	8	10	9	12	9	7	9	9	6	7	12
Higher consumer demand	3	2	1	2	1	1	1	2	2	1	1	2	2
Lower prices	*	1	1	1	2	1	1	1	*	1	1	*	1
Easier credit	*	1	4	6	5	4	3	3	1	6	3	1	1
Stock market	1	2	2	2	1	3	2	2	2	2	1	1	1
Trade deficit	1	1	*	1	1	1	1	1	3	2	2	2	2
UNFAVORABLE NEWS:													
Government; elections	4	4	4	5	3	4	2	3	5	3	6	6	3
Unemployment	20	15	17	13	15	14	16	17	19	21	24	27	22
Lower consumer demand	2	4	3	3	3	2	2	5	6	5	6	6	6
Higher prices	6	6	6	2	4	2	2	2	3	4	3	4	2
Tighter credit	12	10	5	3	2	1	1	1	2	1	3	3	2
Stock market	2	2	1	1	1	1	7	6	2	2	6	4	3
Trade deficit	3	2	3	5	3	2	2	2	5	2	3	4	5

The questions were: "During the last few months, have you heard of any favorable or unfavorable changes in business conditions?" and "What did you hear?"

+ : May add to more than 100% due to multiple mentions.
* : Less than half of one percent.

CHART 12 - RECENT CHANGES

CURRENT BUSINESS CONDITIONS COMPARED WITH A YEAR AGO

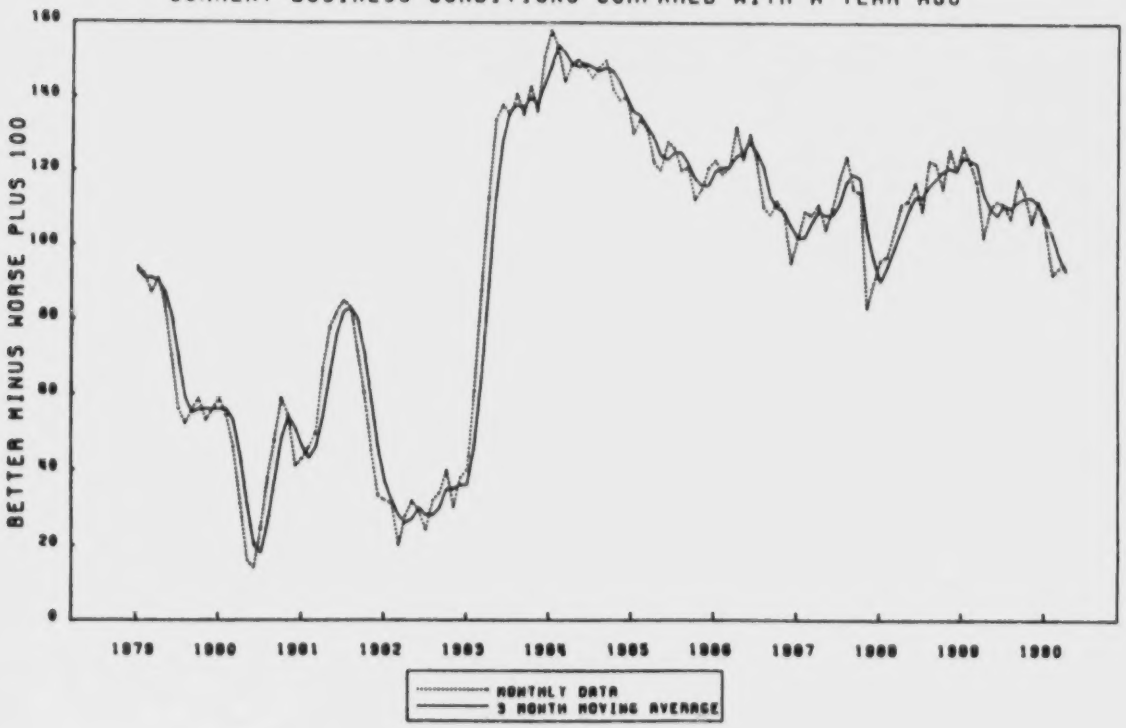


CHART 12 - HISTORICAL SERIES

CURRENT BUSINESS CONDITIONS COMPARED WITH A YEAR AGO

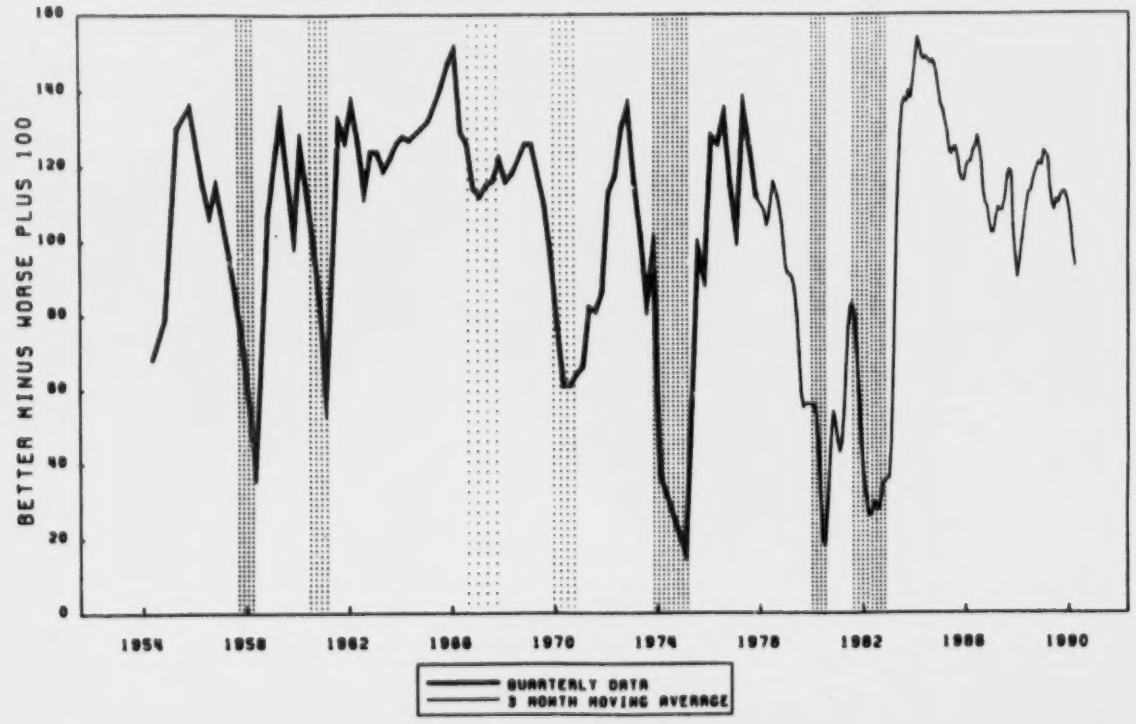


TABLE 12

CURRENT BUSINESS CONDITIONS COMPARED TO A YEAR AGO

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
BETTER NOW	41%	44%	45%	43%	42%	48%	47%	42%	45%	43%	36%	36%	38%
SAME	18	19	18	22	21	19	19	19	19	16	17	20	17
WORSE NOW	39	34	33	32	35	30	33	36	33	38	44	42	44
DK,NA	2	3	4	3	2	3	1	3	3	3	3	2	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "Would you say that at the present time business conditions are better or worse than they were a year ago?"

CHART 13 - RECENT CHANGES

EXPECTED CHANGE IN BUSINESS CONDITIONS IN A YEAR

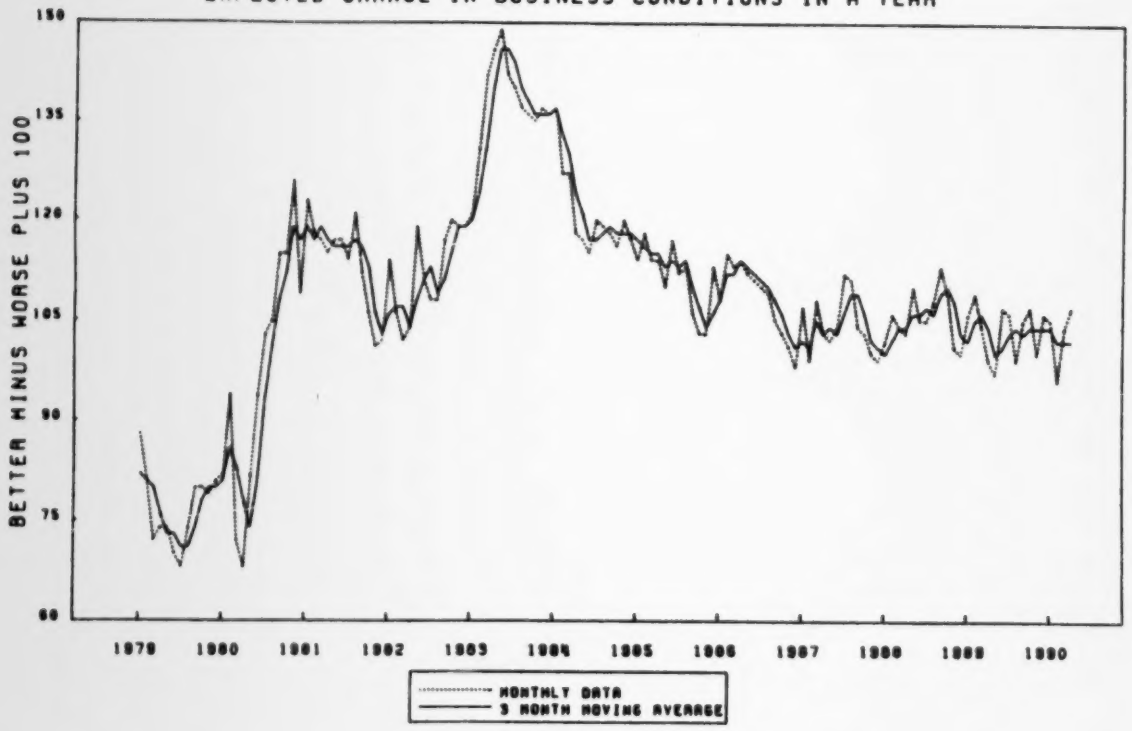


CHART 13 - HISTORICAL SERIES

EXPECTED CHANGE IN BUSINESS CONDITIONS IN A YEAR

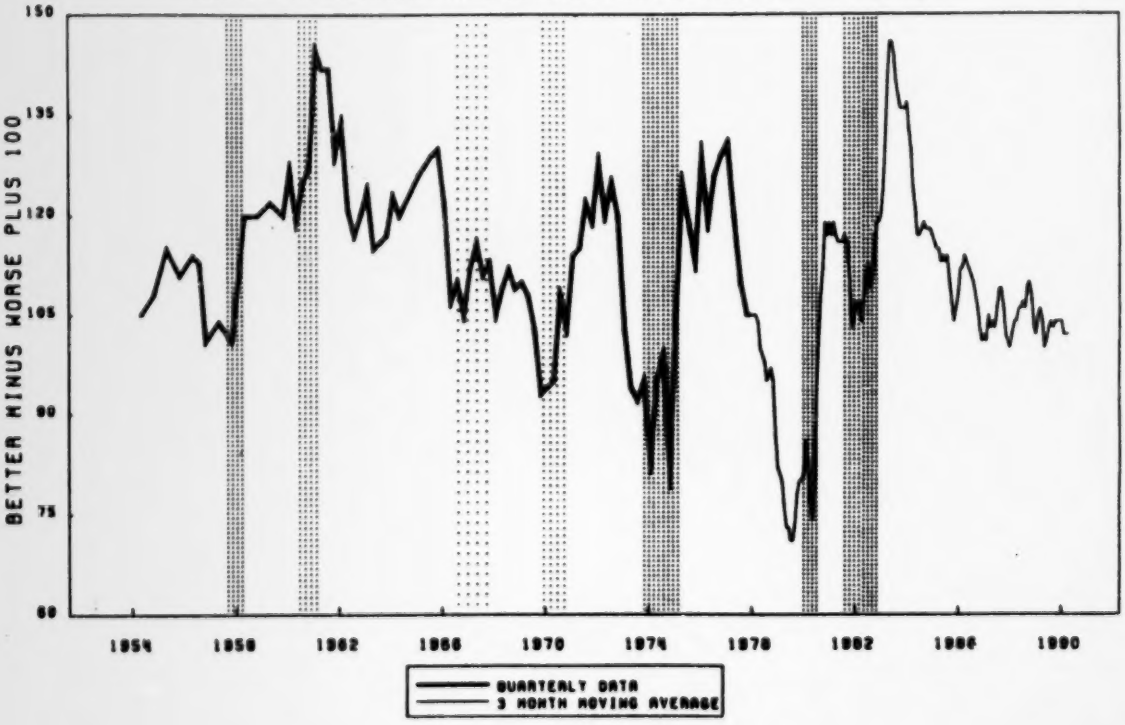


TABLE 13

EXPECTED CHANGE IN BUSINESS CONDITIONS IN A YEAR

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
BETTER	20%	19%	24%	20%	18%	21%	22%	18%	24%	22%	19%	22%	24%
SAME	57	56	57	63	60	59	61	61	55	59	56	58	58
WORSE	21	22	17	14	19	16	15	18	18	17	23	18	17
DK,NA	2	3	2	3	3	4	2	3	3	2	2	2	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "And how about a year from now, do you expect that in the country as a whole business conditions will be better, or worse than they are at present, or just about the same?"

CHART 14 - RECENT CHANGES

TREND IN PAST AND EXPECTED BUSINESS CONDITIONS

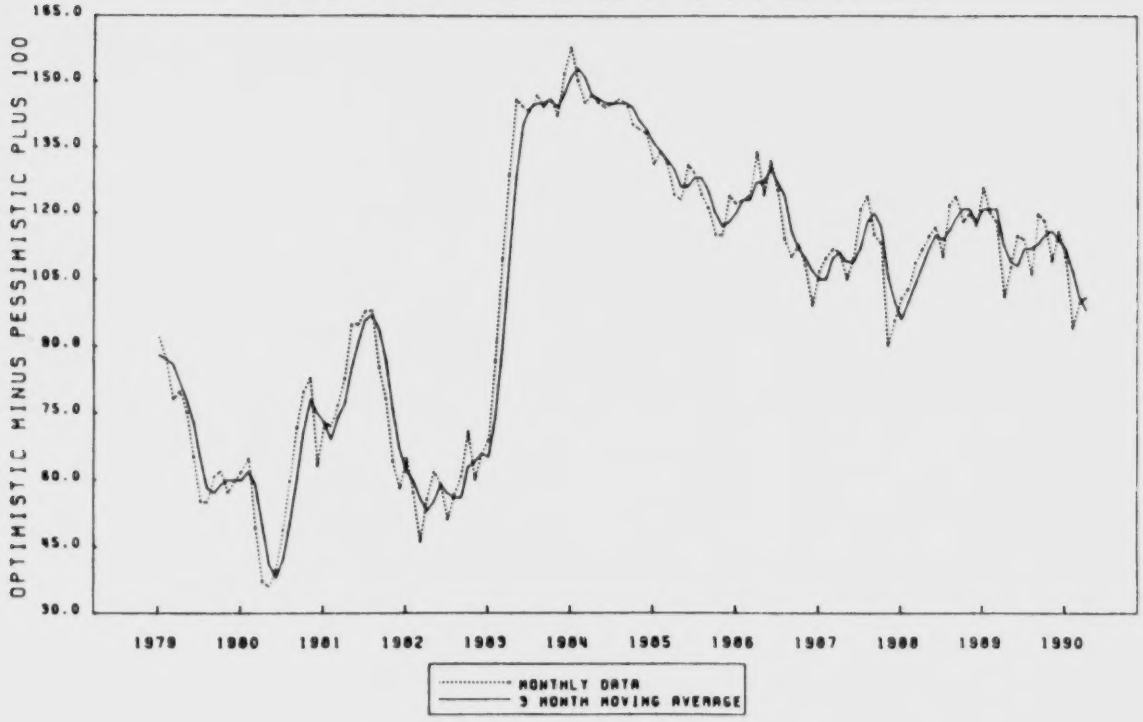


CHART 14 - HISTORICAL SERIES

TREND IN PAST AND EXPECTED BUSINESS CONDITIONS

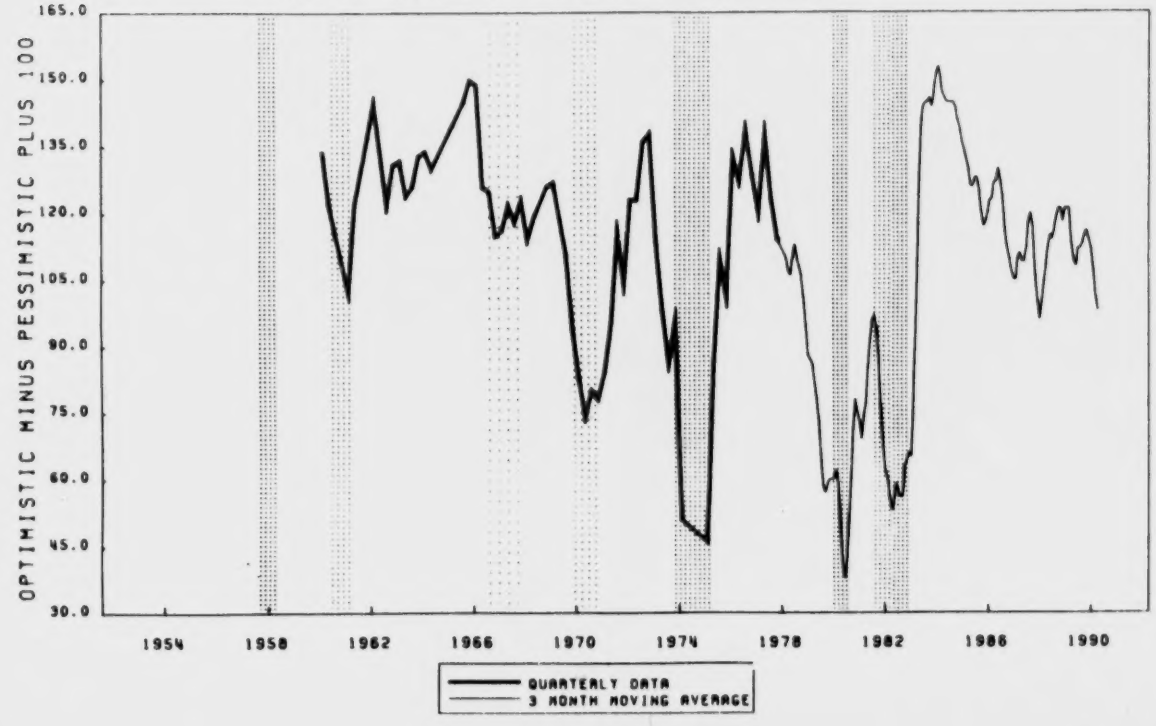


TABLE 14

TREND IN PAST AND EXPECTED CHANGES IN BUSINESS CONDITIONS

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
TREND:													
Continuous increase (a)	14%	13%	15%	14%	11%	14%	15%	10%	15%	14%	11%	10%	13%
Intermittant increase (b)	24	29	30	30	29	34	33	32	29	29	25	27	25
Remain unchanged (c)	13	12	12	16	14	12	13	13	13	12	10	12	12
Intermittant decline (d)	24	20	18	20	22	18	19	21	16	20	26	26	25
Continuous decline (e)	13	14	12	10	12	10	11	12	12	13	16	11	12
Mixed change (f)	8	7	6	4	7	6	5	6	10	8	8	10	11
DK,NA	4	5	7	6	5	6	4	6	5	4	4	4	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

Combination of the responses to the questions on Tables 12 and 13.

Key: (a) Better than a year ago/Better a year from now
(b) Better/Same or Same/Better
(c) Same/Same
(d) Worse/Same or Same/Worse
(e) Worse/Worse
(f) Worse/Better or Better/Worse

CHART 15 - RECENT CHANGES

BUSINESS CONDITIONS EXPECTED DURING THE NEXT TWELVE MONTHS

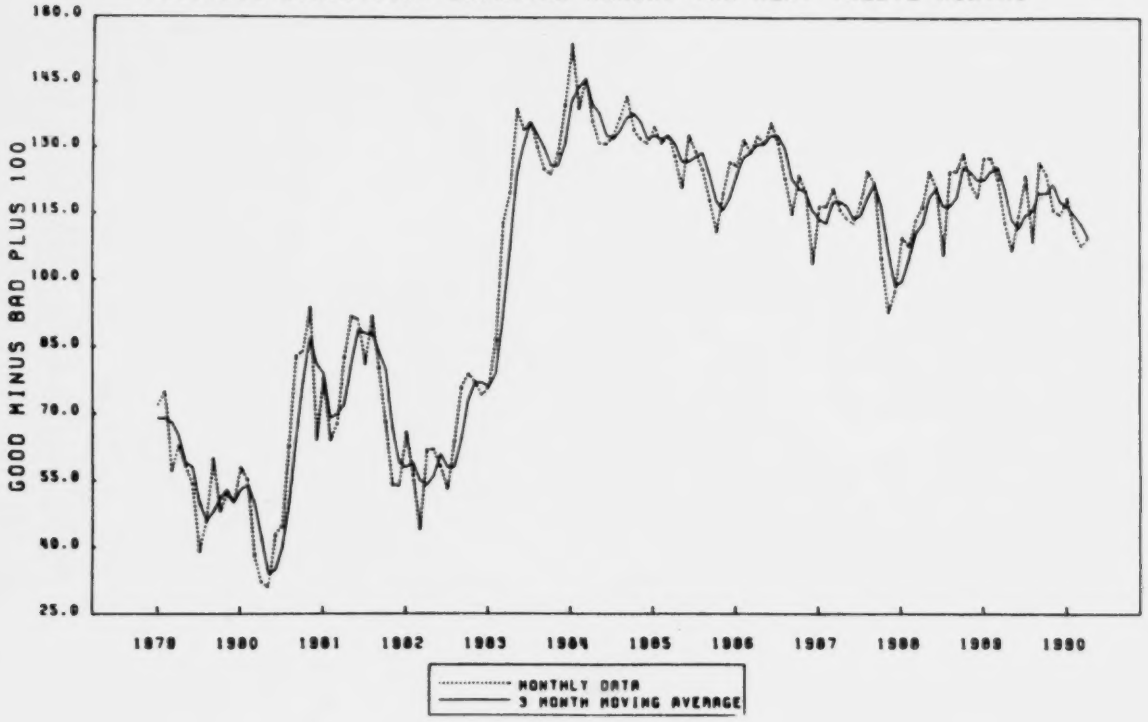


CHART 15 - HISTORICAL SERIES

BUSINESS CONDITIONS EXPECTED DURING THE NEXT TWELVE MONTHS

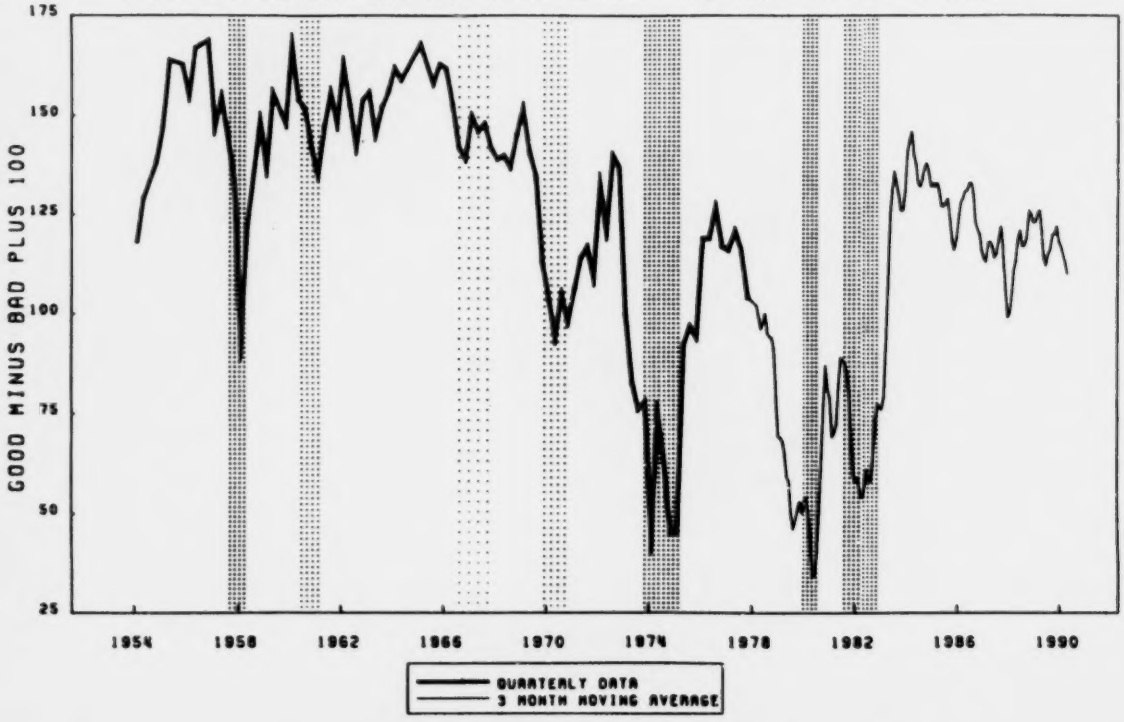


TABLE 15

BUSINESS CONDITIONS EXPECTED DURING THE NEXT 12 MONTHS

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIMES	49%	46%	48%	53%	46%	55%	53%	50%	49%	52%	46%	48%	49%
UNCERTAIN; GOOD & BAD	3	4	5	4	6	4	5	4	2	3	6	3	4
BAD TIMES	36	39	33	29	37	28	29	34	34	33	35	40	39
DON'T KNOW	6	6	9	7	4	6	8	7	7	6	7	5	4
NOT ASCERTAINED	6	5	5	7	7	7	5	5	8	6	6	4	4
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "Now turning to business conditions in the country as a whole—do you think that during the next 12 months we'll have good times financially, or bad times or what?"

CHART 16 - RECENT CHANGES

BUSINESS CONDITIONS EXPECTED FOR THE NEXT FIVE YEARS

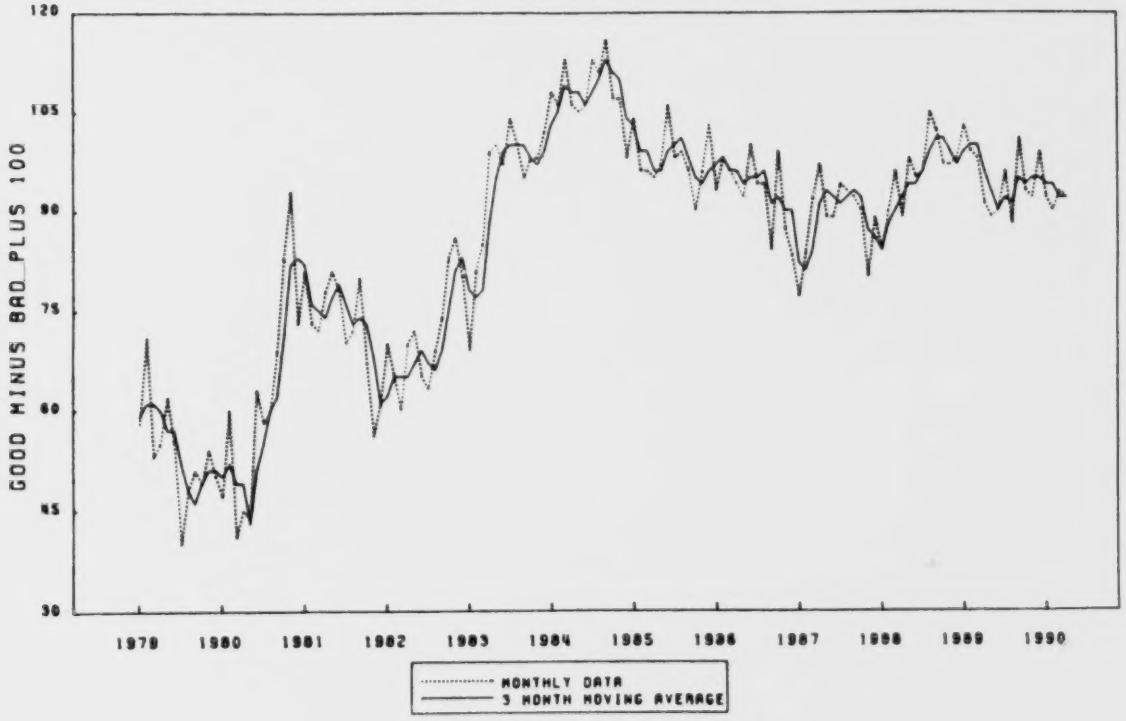


CHART 16 - HISTORICAL SERIES

BUSINESS CONDITIONS EXPECTED FOR THE NEXT FIVE YEARS

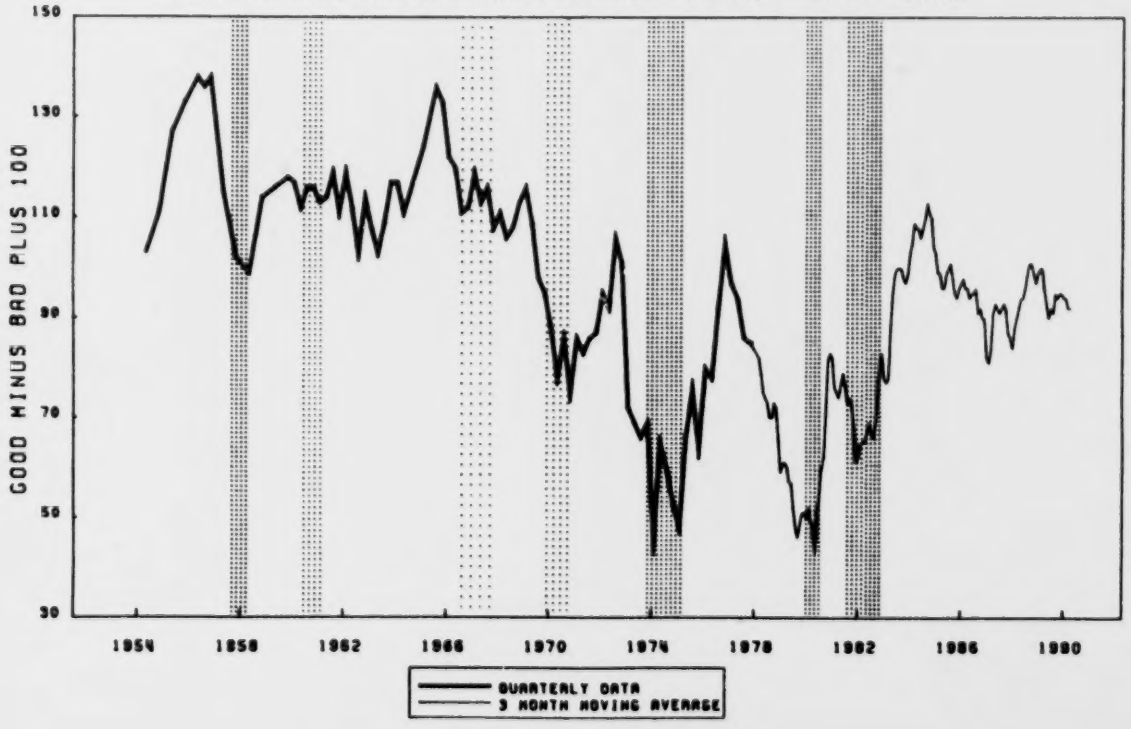


TABLE 16

BUSINESS CONDITIONS EXPECTED DURING THE NEXT FIVE YEARS

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIMES	37%	36%	37%	39%	33%	41%	36%	38%	39%	37%	36%	40%	39%
UNCERTAIN; GOOD & BAD	13	13	12	13	13	13	14	13	15	12	11	10	11
BAD TIMES	46	47	47	43	45	40	43	46	40	45	46	47	47
NOT ASCERTAINED	4	4	4	5	9	6	7	3	6	6	7	3	3
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "Looking ahead, which would you say is more likely—that in the country as a whole we'll have continuous good times during the next 5 years or so, or that we will have periods of widespread unemployment or depression, or what?"

CHART 17 - RECENT CHANGES
EXPECTED CHANGE IN UNEMPLOYMENT

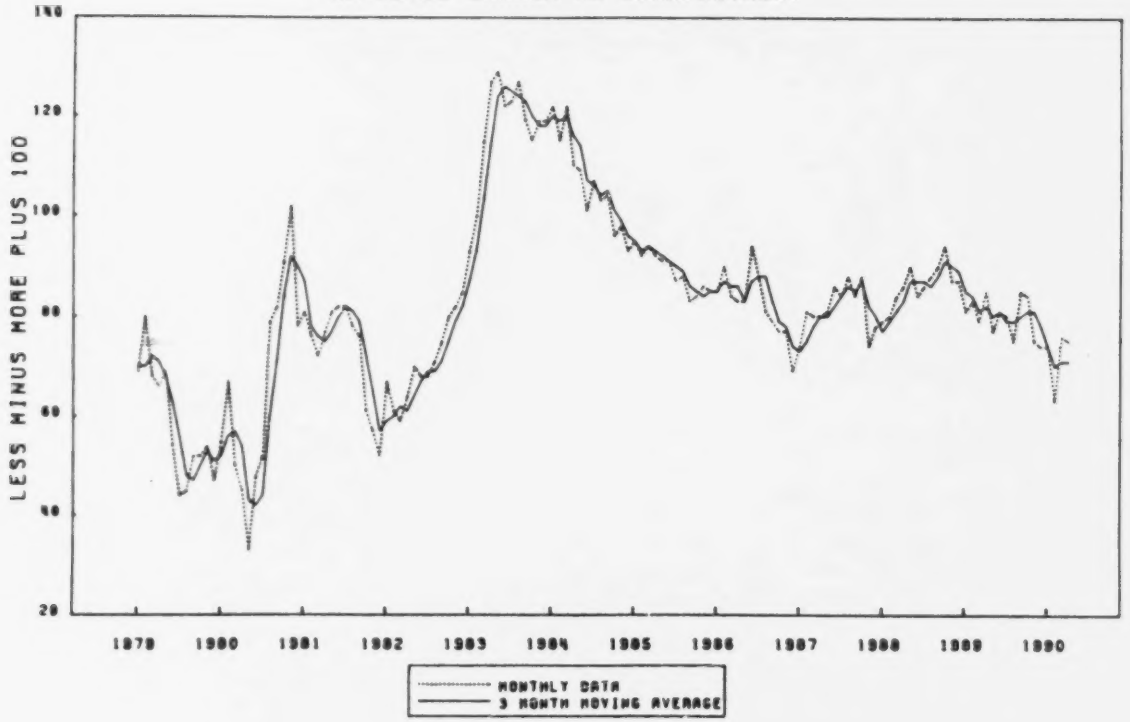


CHART 17 - HISTORICAL SERIES
EXPECTED CHANGE IN UNEMPLOYMENT

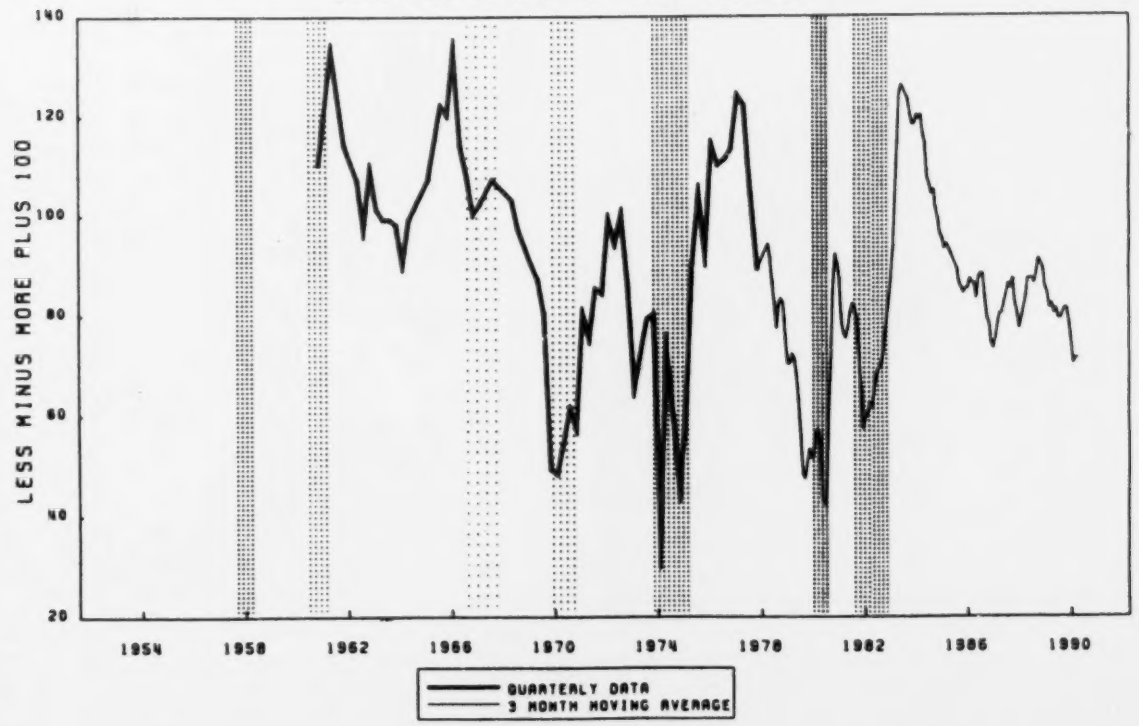


TABLE 17

EXPECTED CHANGE IN UNEMPLOYMENT

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
LESS	14%	12%	10%	11%	10%	11%	14%	10%	11%	10%	7%	10%	11%
SAME	55	52	59	57	54	61	55	54	51	52	48	55	52
MORE	29	35	29	31	35	26	30	35	37	36	44	34	36
DK,NA	2	1	2	1	1	2	1	1	1	2	1	1	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "How about people out of work during the coming 12 months—do you think that there will be more unemployment than now, about the same, or less?"

CHART 18 - RECENT CHANGES

EXPECTED CHANGE IN INTEREST RATES

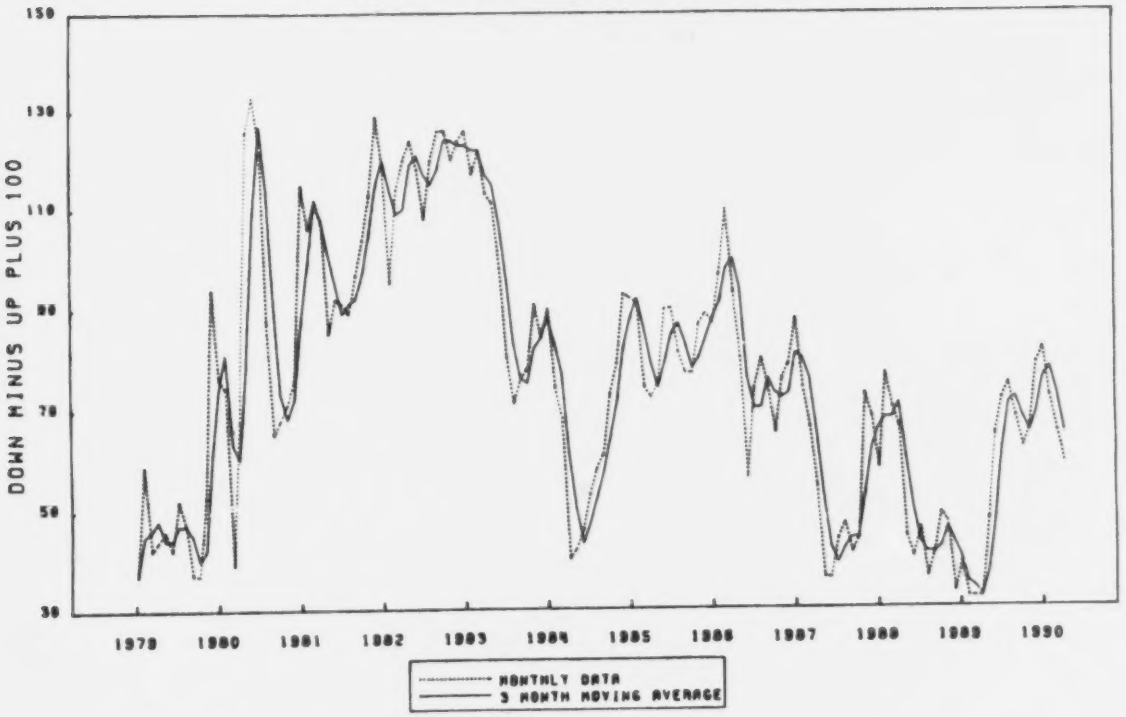


CHART 18 - HISTORICAL SERIES

EXPECTED CHANGE IN INTEREST RATES

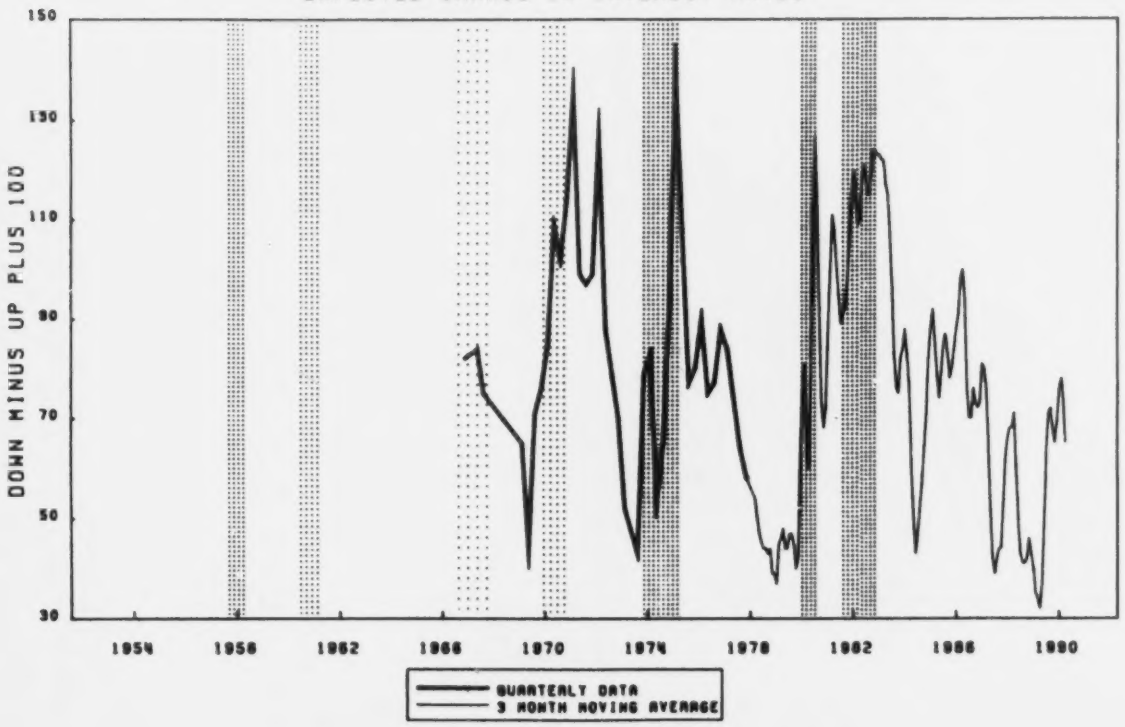


TABLE 18

EXPECTED CHANGE IN INTEREST RATES

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GO UP	75%	64%	54%	51%	49%	50%	55%	52%	46%	45%	48%	51%	55%
STAY THE SAME	17	20	24	25	24	30	26	27	26	26	29	32	29
GO DOWN	7	12	19	23	24	18	17	18	25	27	20	16	14
DK,NA	1	4	3	1	3	2	2	3	3	2	3	1	2
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "No one can say for sure, but what do you think will happen to interest rates for borrowing money during the next 12 months—will they go up, stay the same, or go down?"

CHART 19 - RECENT CHANGES

MEAN EXPECTED PRICE INCREASE OVER THE NEXT 12 MONTHS

CHART 19 - HISTORICAL SERIES

MEAN EXPECTED PRICE INCREASE OVER THE NEXT 12 MONTHS

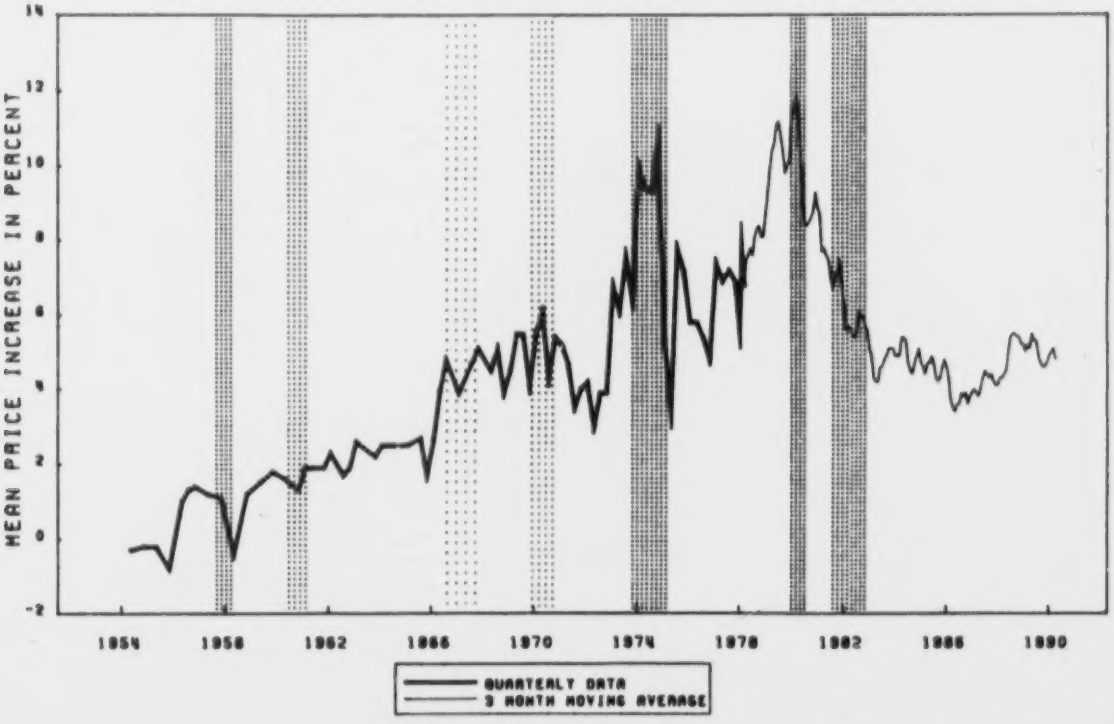


TABLE 19

EXPECTED CHANGE IN PRICES DURING THE NEXT 12 MONTHS

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
SAME OR DOWN	8%	10%	10%	10%	13%	13%	12%	12%	10%	11%	15%	11%	11%
WILL GO UP BY:													
1-2%	17	16	18	18	18	21	19	17	21	14	13	18	20
3-4%	23	19	24	21	23	24	23	26	21	24	23	24	24
5%	21	23	19	22	21	21	19	19	23	21	22	20	22
6-9%	10	9	9	9	6	6	9	7	10	8	10	8	7
10-14%	10	11	10	8	9	6	8	8	5	10	8	8	7
15% or more	5	7	5	5	3	3	3	4	5	5	4	5	4
DK how much up	6	4	5	6	6	5	5	6	5	5	5	6	5
DK,NA	*	1	*	1	1	1	2	1	*	2	*	*	*
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEAN INCREASE	5.0	5.8	5.0	5.1	4.7	4.4	4.7	4.7	4.6	5.4	5.1	4.9	4.5
VARIANCE	24	49	34	39	42	32	32	31	28	49	45	38	26
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The questions were: "During the next 12 months, do you think that prices in general will go up, or go down, or stay where they are now?" and "By about what percent do you expect prices to go up, on the average, during the next 12 months?"

* : Less than half of one percent.

CHART 20 - RECENT CHANGES

OPINIONS ABOUT THE GOVERNMENT'S ECONOMIC POLICY

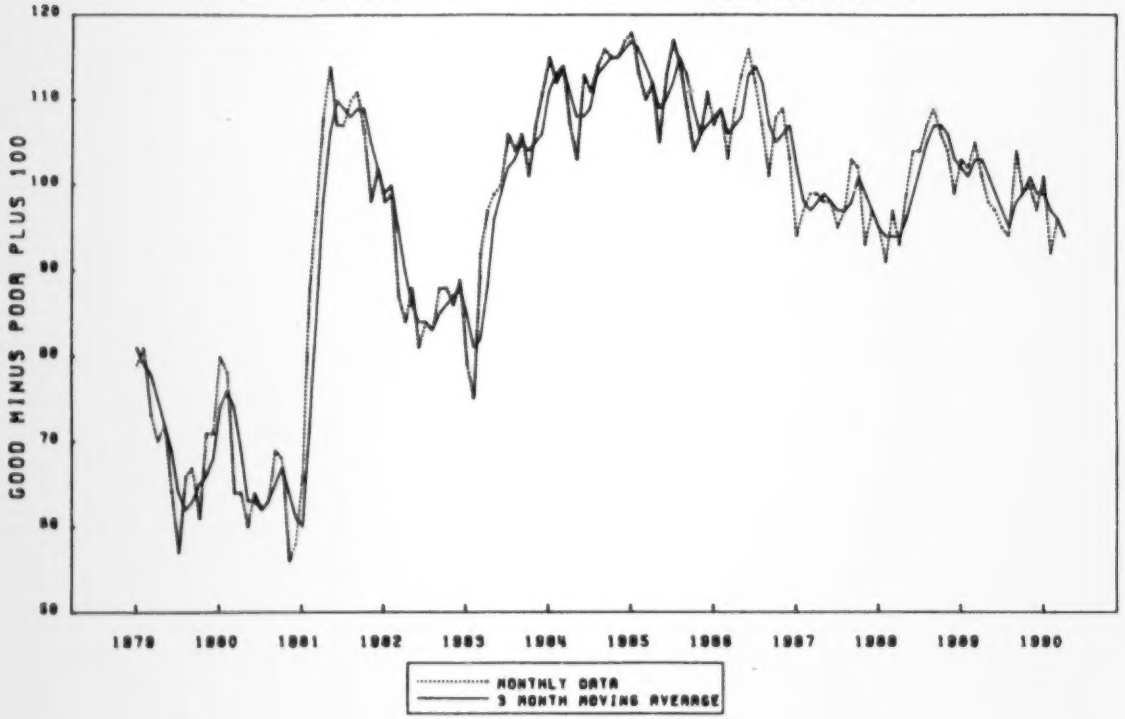


CHART 20 - HISTORICAL SERIES

OPINIONS ABOUT THE GOVERNMENT'S ECONOMIC POLICY

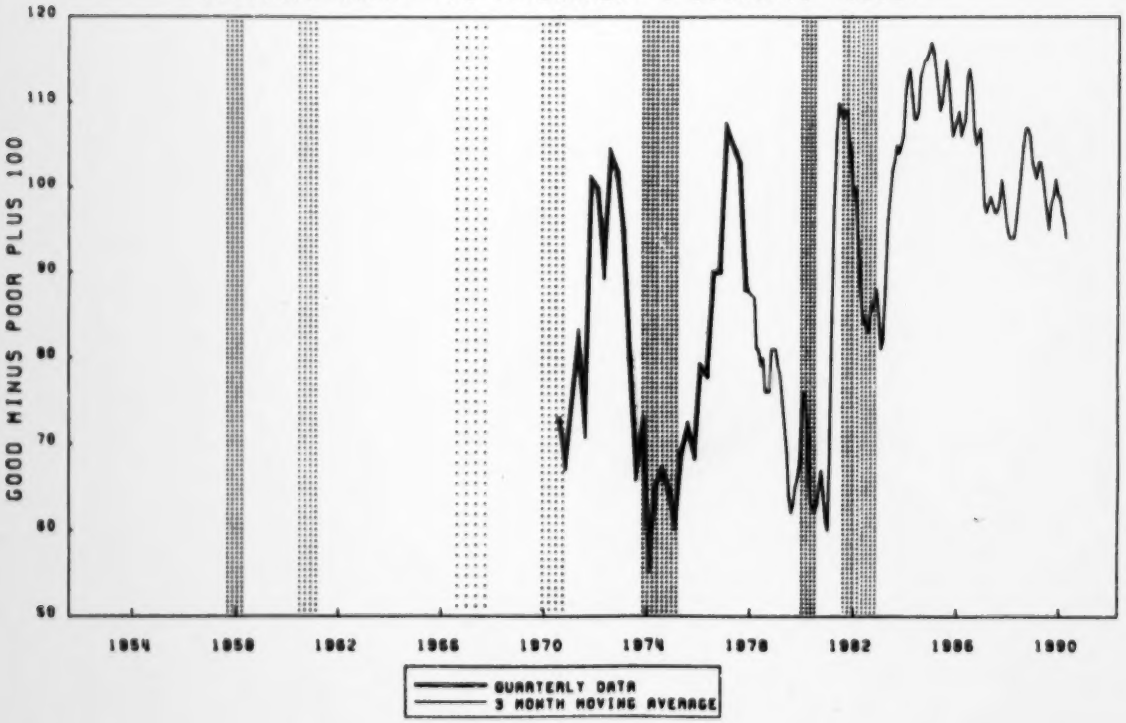


TABLE 20

OPINIONS ABOUT THE GOVERNMENT'S ECONOMIC POLICY

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
A GOOD JOB	19%	19%	20%	18%	18%	21%	18%	17%	20%	18%	17%	19%	17%
ONLY FAIR	59	57	55	56	56	60	61	64	55	63	57	56	59
A POOR JOB	18	21	23	23	24	17	19	17	23	17	25	23	23
DK,NA	4	3	2	3	2	2	2	2	2	2	1	2	1
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "As to the economic policy of the government—I mean steps taken to fight inflation or unemployment—would you say the government is doing a good job, only fair, or a poor job?"

CHART 21 - RECENT CHANGES

BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS

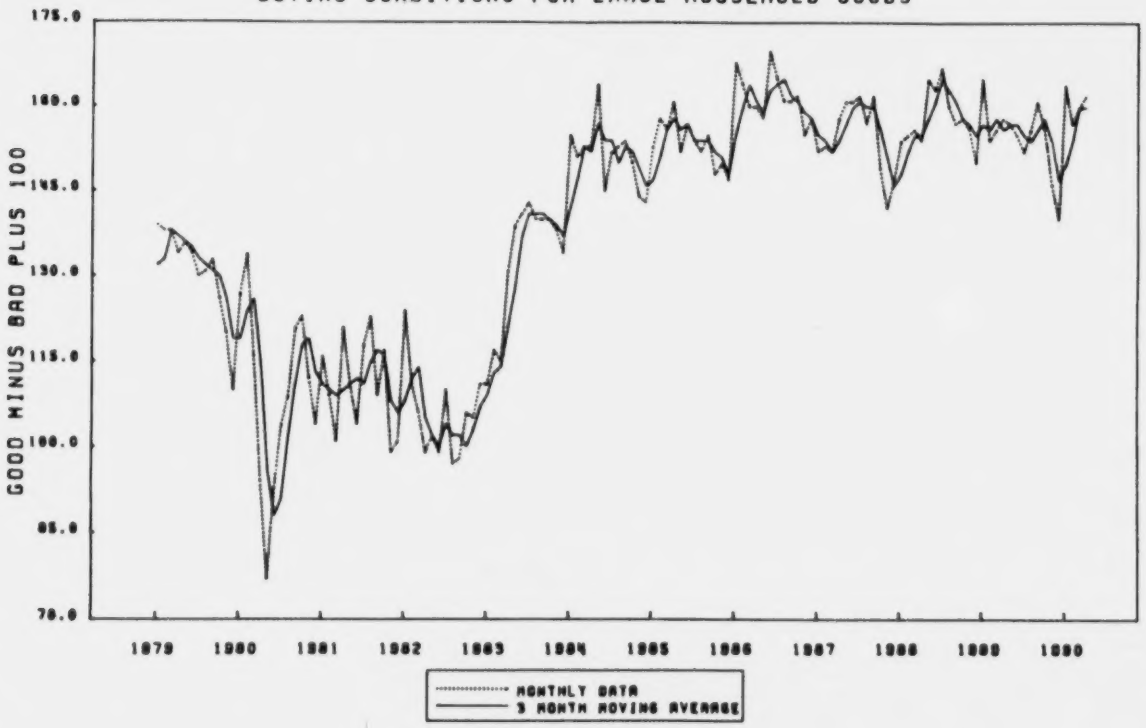


CHART 21 - HISTORICAL SERIES

BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS

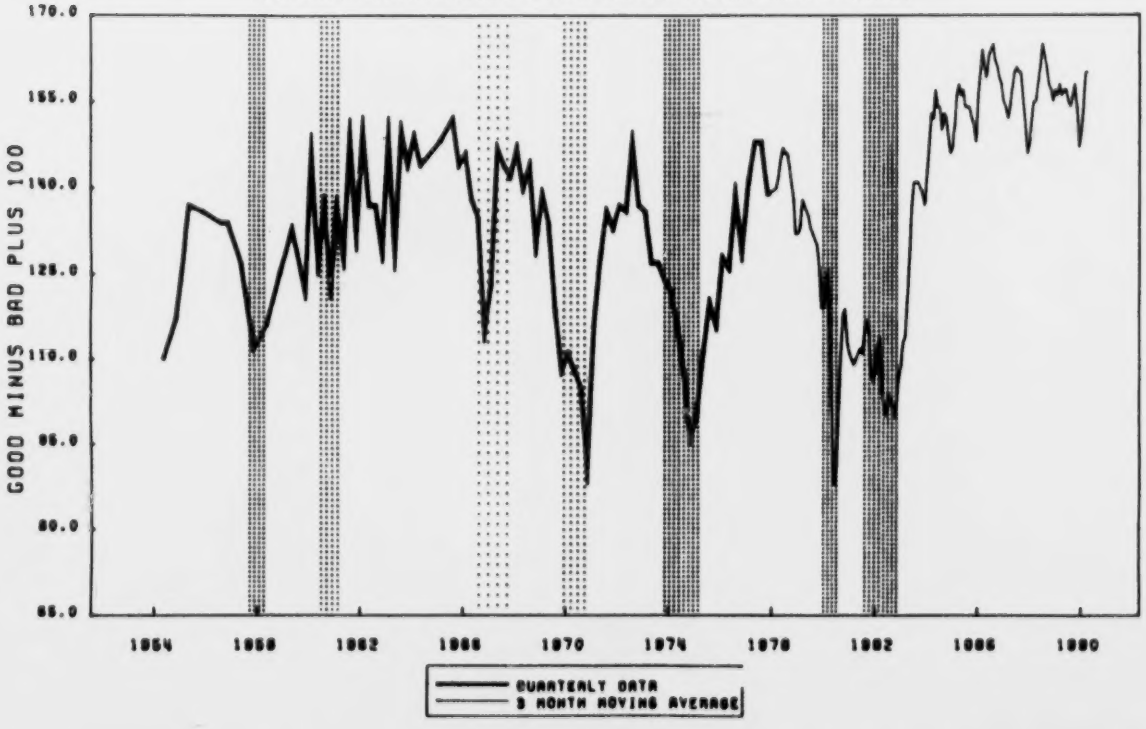


TABLE 21

BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIME TO BUY	75%	73%	71%	71%	73%	75%	73%	67%	65%	77%	74%	76%	78%
UNCERTAIN, DEPENDS	8	11	13	10	10	11	10	12	10	10	9	8	6
BAD TIME TO BUY	17	16	16	19	17	14	17	21	25	13	17	16	16
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "About the big things people buy for their homes—such as furniture, a refrigerator, stove, television, and things like that. Generally speaking, do you think now is a good or a bad time for people to buy major household items?"

CHART 22A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR DURABLES

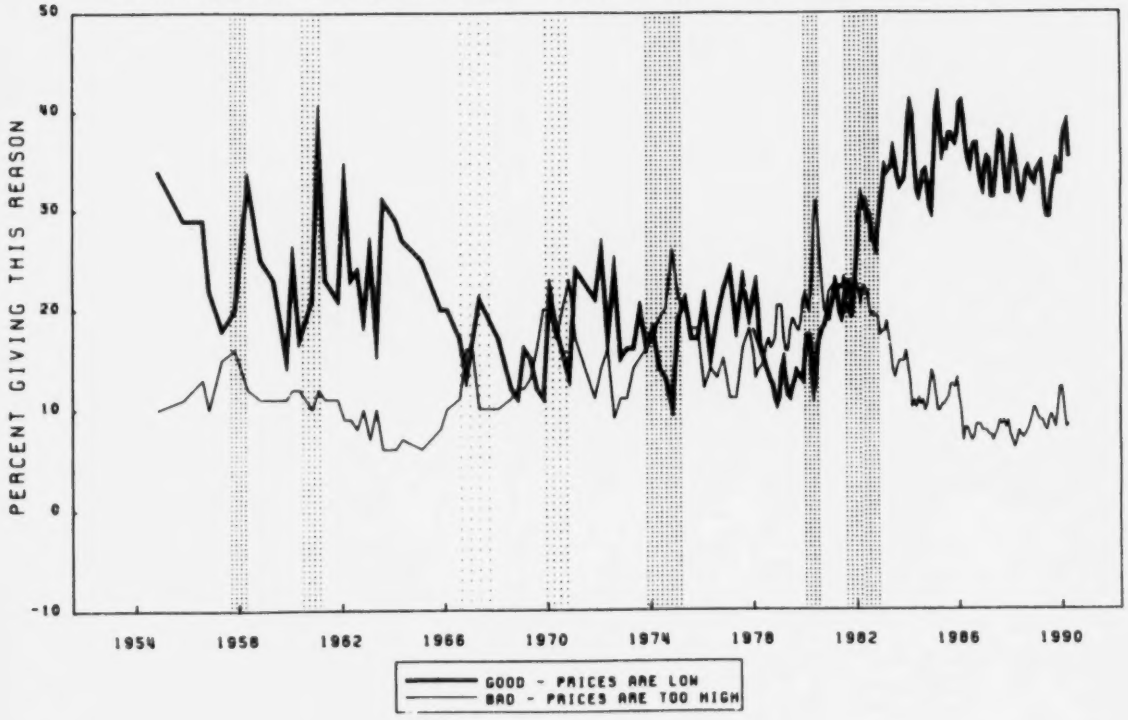


CHART 22B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR DURABLES

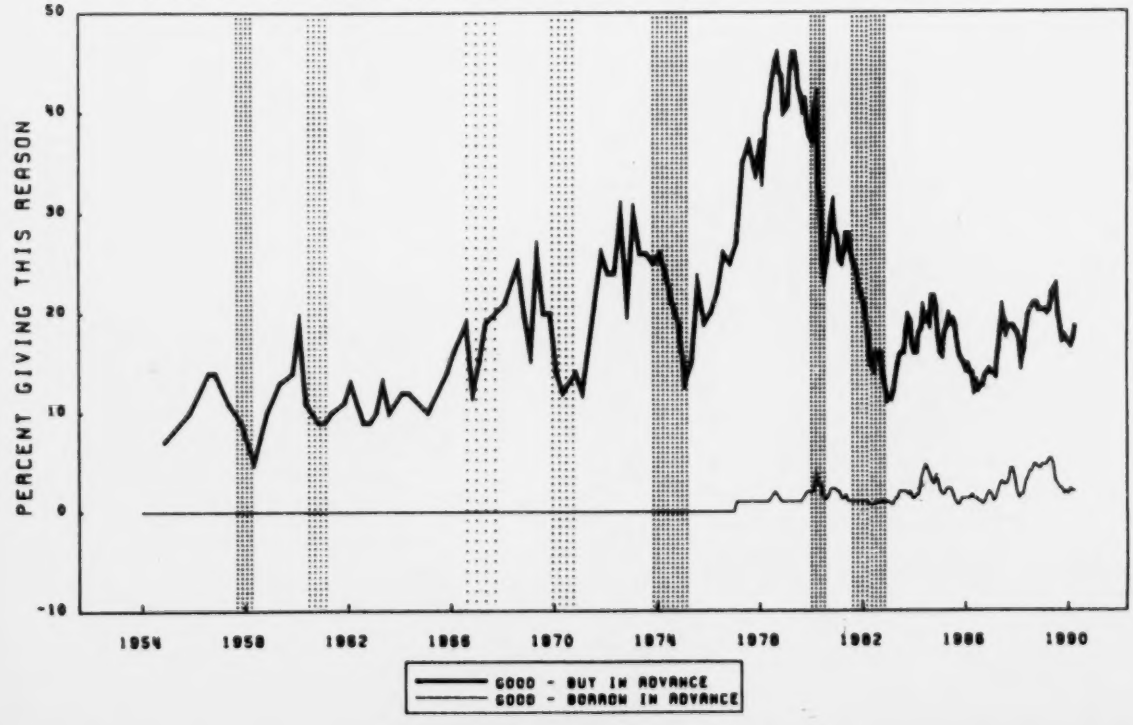


TABLE 22

SELECTED REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR LARGE HOUSEHOLD GOODS +

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIME TO BUY:													
Prices are low; good buys available	31%	27%	30%	31%	35%	34%	35%	32%	34%	45%	35%	36%	35%
Prices won't come down; are going higher	22	24	21	23	16	17	19	17	16	18	16	18	22
Interest rates are low	4	5	5	7	7	7	5	7	5	5	5	8	5
Borrow-in-advance of rising interest rates	7	4	3	2	3	2	2	1	3	1	3	2	1
Times are good; prosperity	8	6	6	5	2	8	6	4	3	4	4	8	4
BAD TIME TO BUY:													
Prices are high	7	7	9	10	9	7	8	14	14	8	8	8	9
Interest rates are high; credit is tight	8	5	6	4	4	2	3	3	4	2	3	3	2
Times are bad; can't afford to buy	4	4	3	3	2	4	4	5	5	2	6	5	4
Bad times ahead; uncertain future	2	3	3	3	3	2	2	1	3	2	2	3	1

Responses to the query: "Why do you say so?" following the question on Table 21.
+ : May add to more than 100% due to multiple mentions.

CHART 22C - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR DURABLES

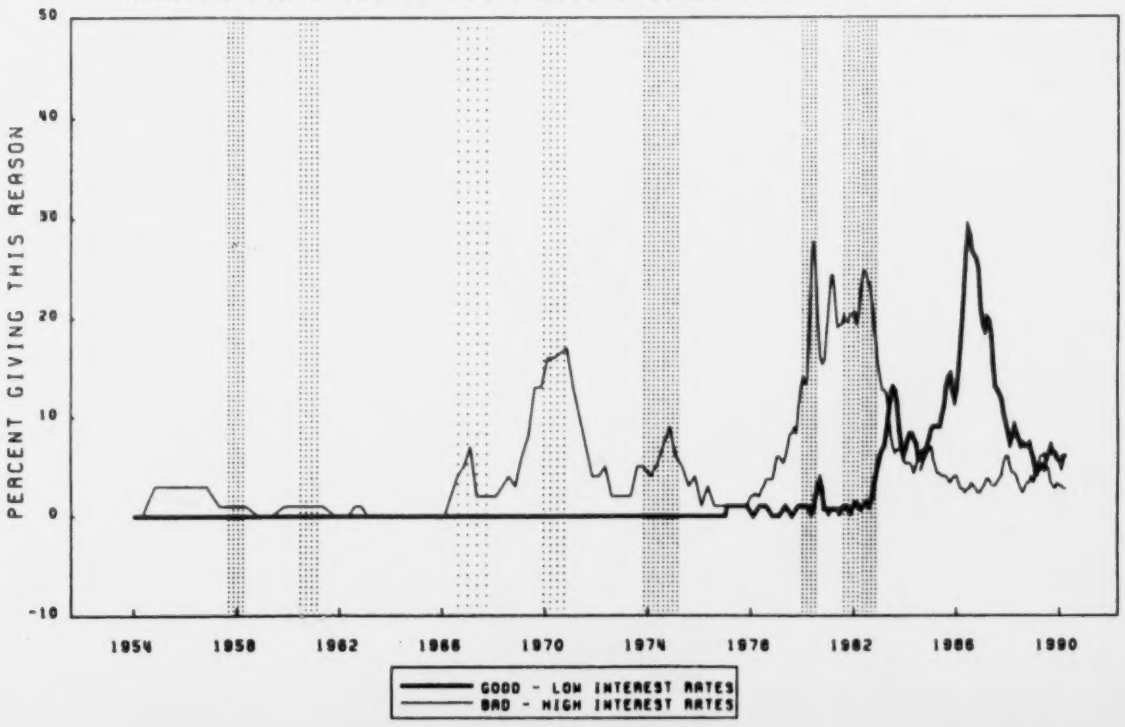


CHART 23 - RECENT CHANGES
BUYING CONDITIONS FOR HOUSES

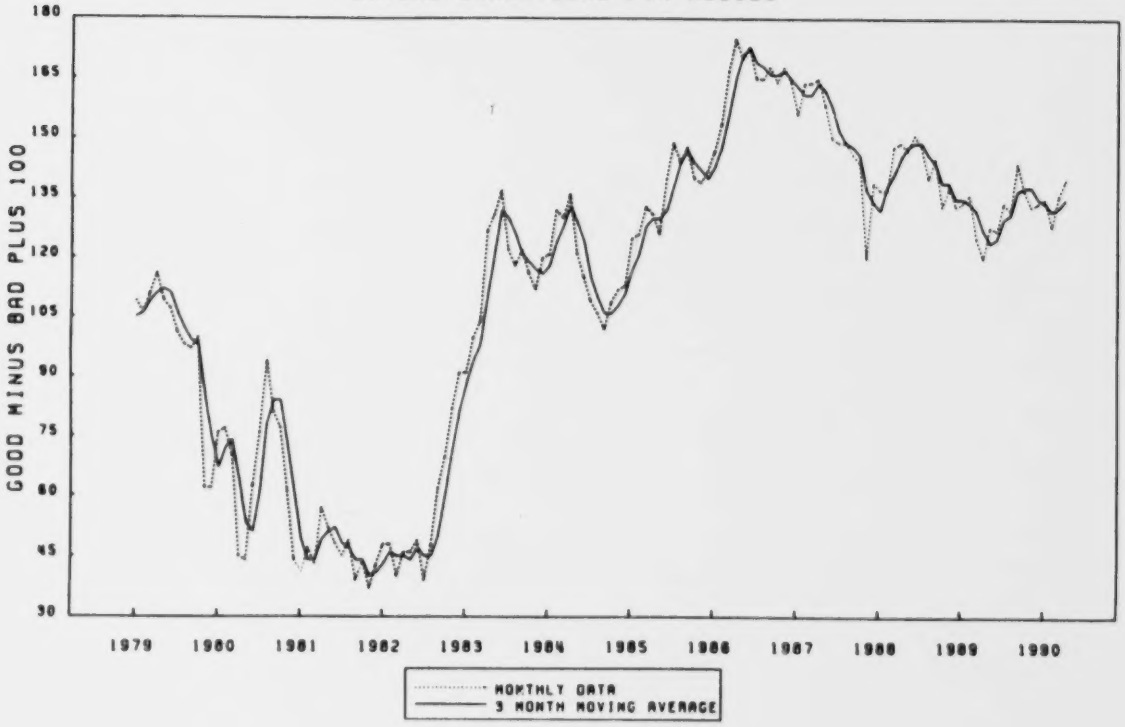


CHART 23 - HISTORICAL SERIES
BUYING CONDITIONS FOR HOUSES

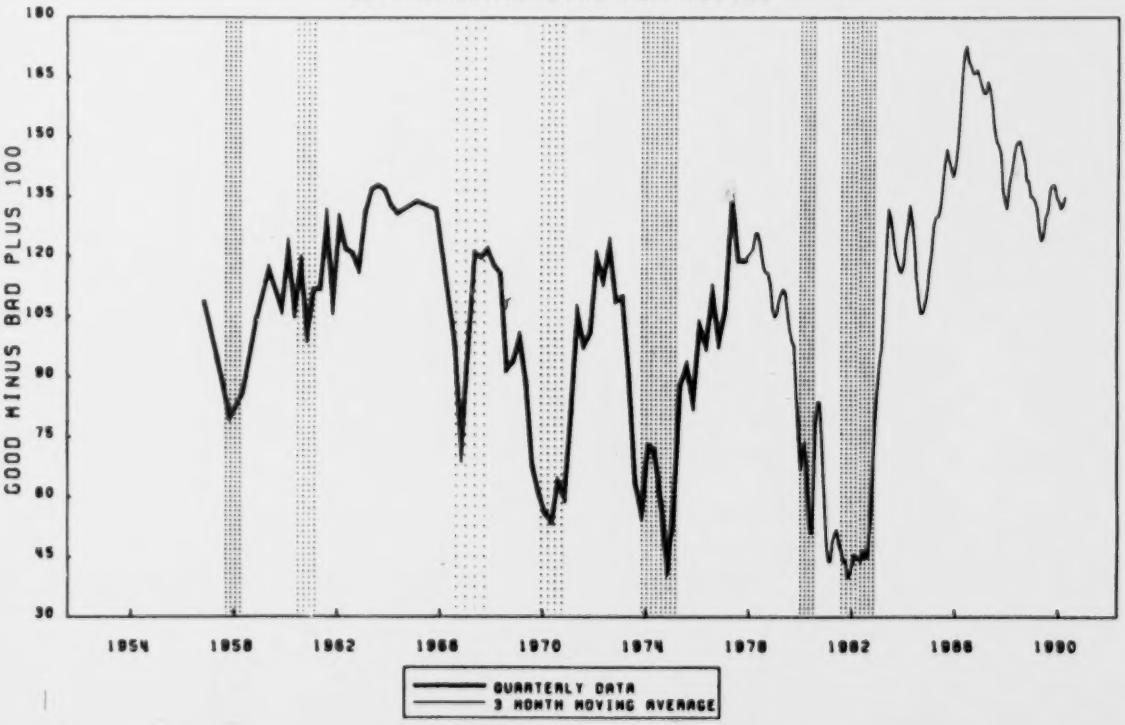


TABLE 23

BUYING CONDITIONS FOR HOUSES

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIME TO BUY	58%	61%	61%	64%	64%	70%	66%	63%	64%	64%	62%	66%	68%
UNCERTAIN, DEPENDS	4	6	5	6	4	4	5	7	6	7	4	4	4
BAD TIME TO BUY	38	33	34	30	32	26	29	30	30	29	34	30	28
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "Generally speaking, do you think now is a good time or a bad time to buy a house?"

CHART 24A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES

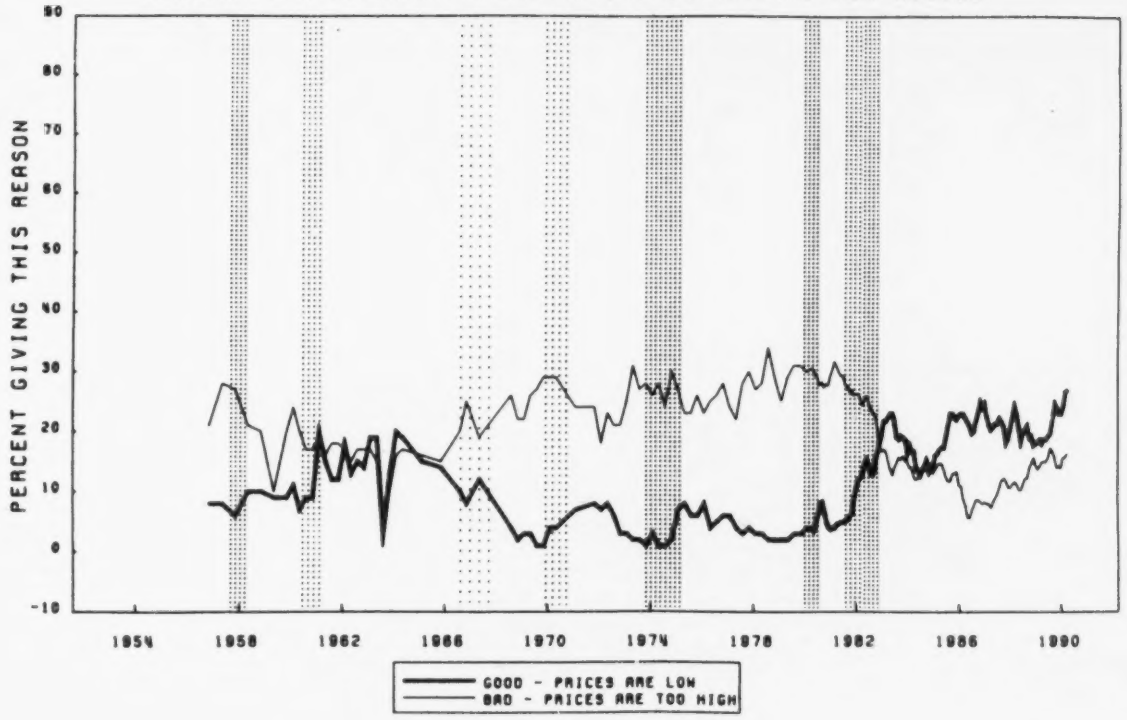


CHART 24B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES

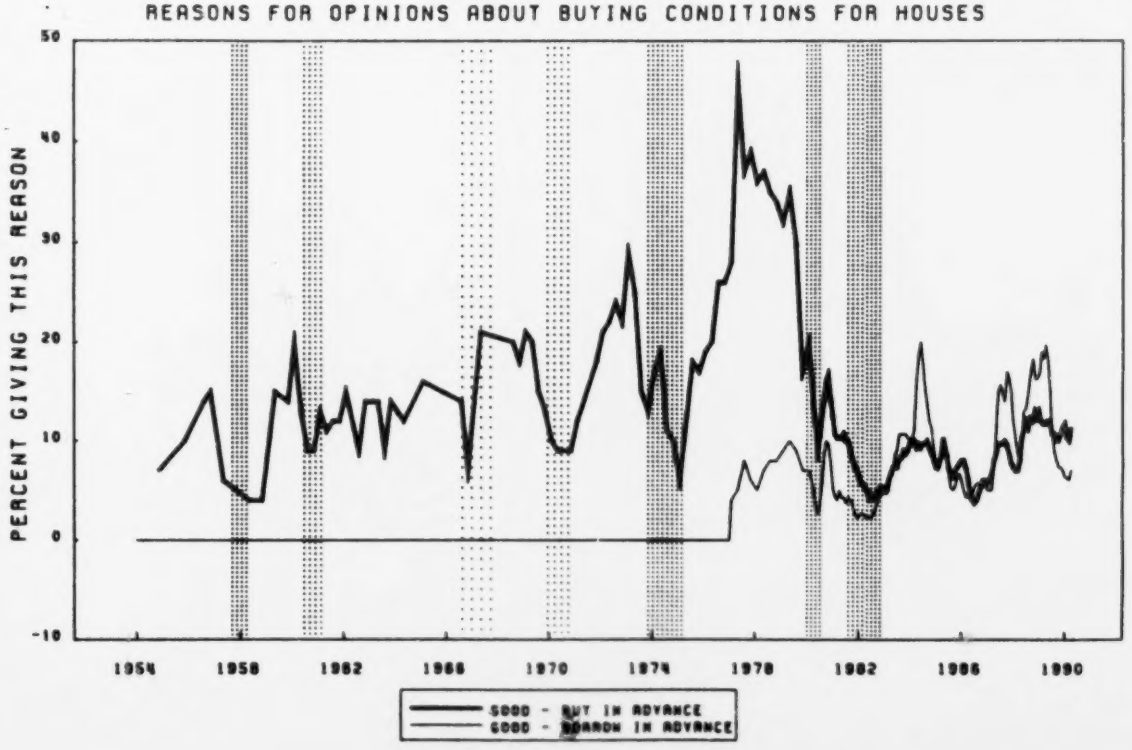


TABLE 24
SELECTED REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES +

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIME TO BUY:													
Prices are low; good buys available	17%	22%	17%	19%	23%	25%	26%	21%	22%	26%	25%	29%	27%
Prices won't come down; are going higher	13	11	12	9	11	10	9	13	12	10	9	11	14
Interest rates are low	16	16	22	27	28	36	29	29	26	31	25	28	25
Borrow-in-advance of rising interest rates	20	15	11	8	8	8	6	8	7	4	8	6	7
Good investment	6	8	9	8	6	7	6	8	8	8	6	6	9
Times are good; prosperity	4	4	3	5	3	4	5	2	3	2	3	4	5
BAD TIME TO BUY:													
Prices are high	16	13	16	18	18	14	15	13	15	14	18	15	16
Interest rates are high; credit is tight	28	25	23	15	15	14	13	15	17	13	18	18	14
Times are bad; can't afford to buy	7	6	5	6	6	6	6	8	6	6	8	5	7
Bad times ahead; uncertain future	4	3	2	2	2	2	1	2	3	4	2	4	1

Responses to the query: "Why do you say so?" following the question on Table 23.
+ : May add to more than 100% due to multiple mentions.

CHART 24C - HISTORICAL SERIES
REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR HOUSES

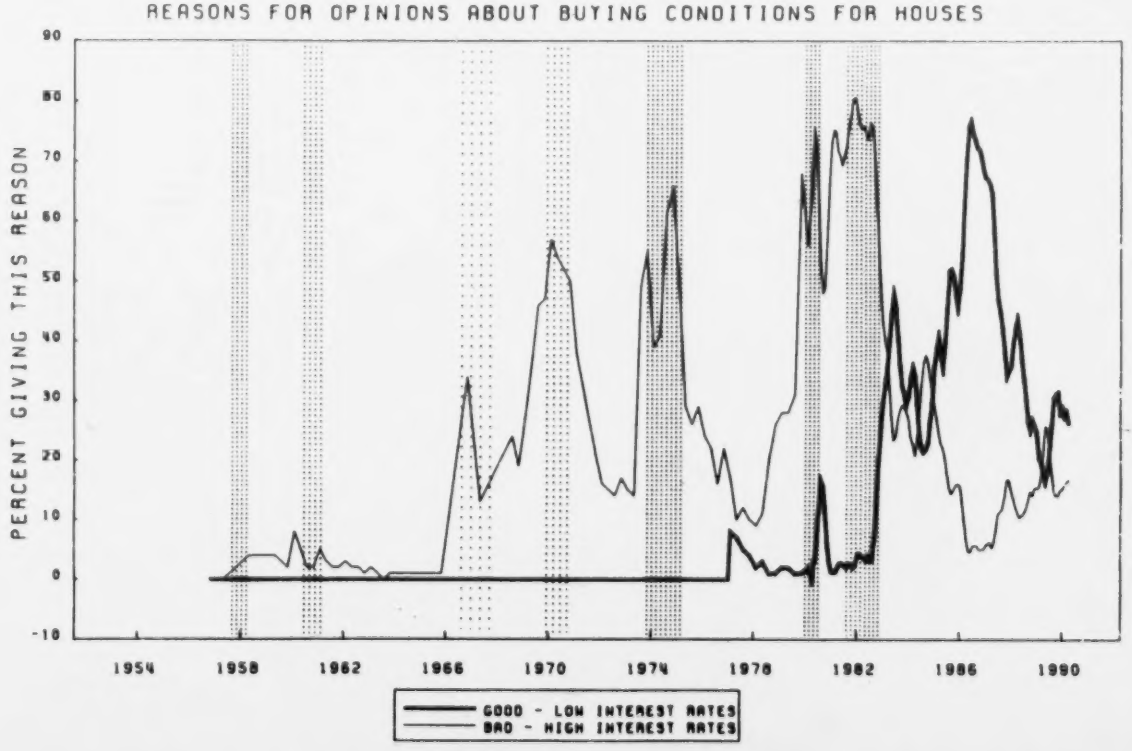


CHART 25 - RECENT CHANGES
BUYING CONDITIONS FOR CARS

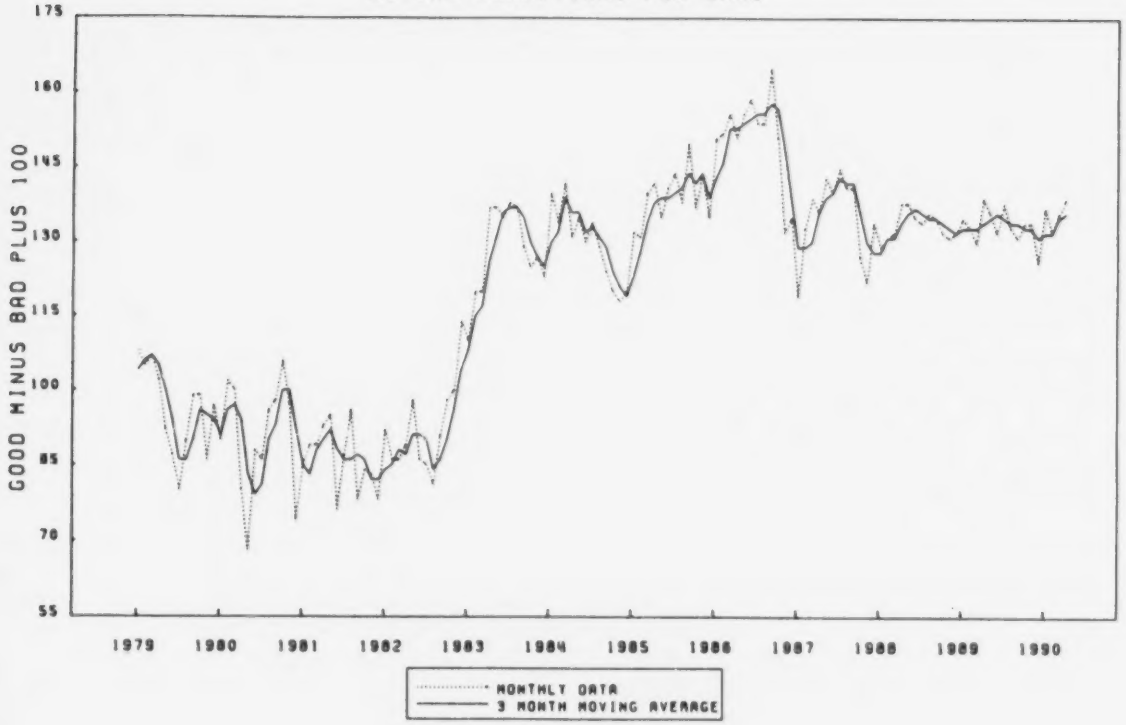


CHART 25 - HISTORICAL SERIES
BUYING CONDITIONS FOR CARS

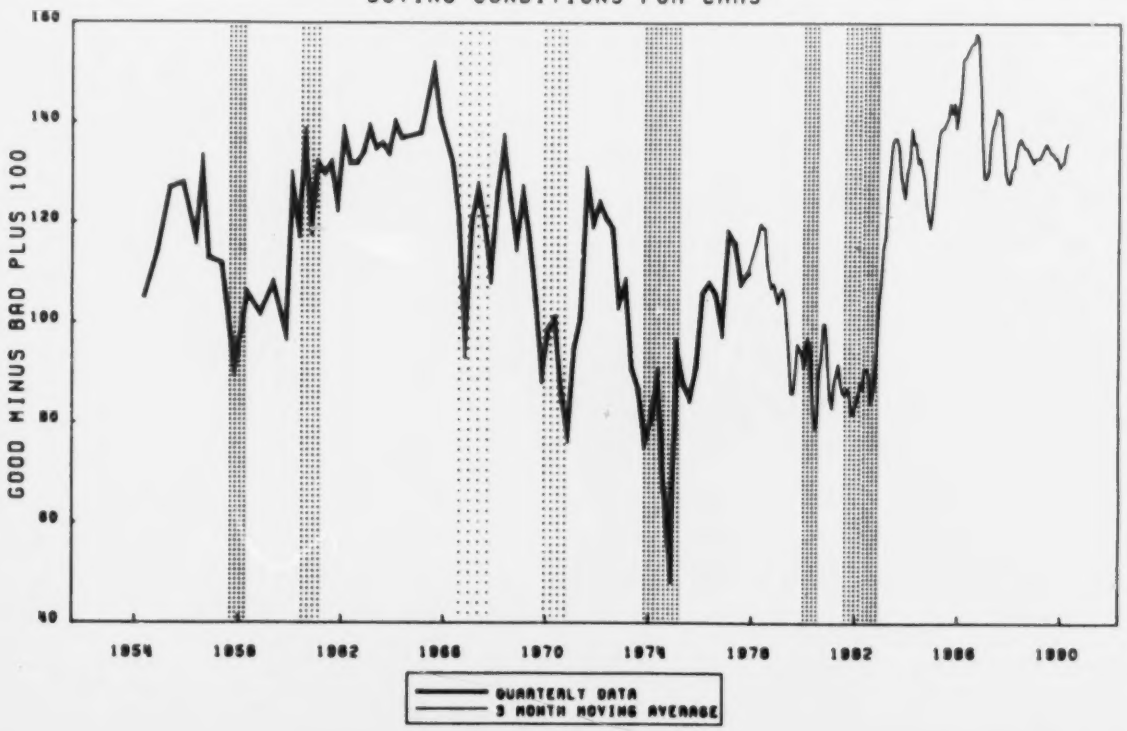


TABLE 25

BUYING CONDITIONS FOR CARS

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIME TO BUY	65%	63%	61%	64%	61%	61%	62%	62%	58%	63%	63%	65%	66%
UNCERTAIN; DEPENDS	9	10	10	10	11	9	10	10	10	11	6	6	7
BAD TIME TO BUY	26	27	29	26	28	30	28	28	32	26	31	29	27
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
CASES	500	503	507	501	502	506	500	502	500	500	511	503	504

The question was: "Speaking now of the automobile market—do you think the next 12 months or so will be a good time or a bad time to buy a car?"

CHART 26A - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS

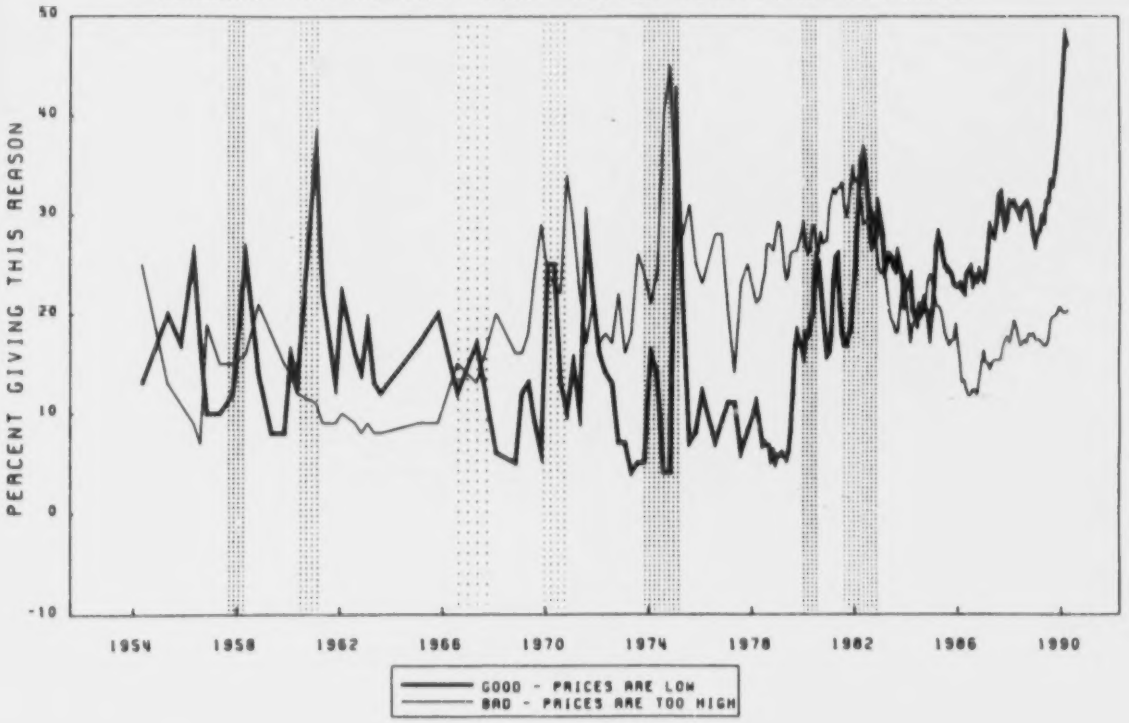


CHART 26B - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS

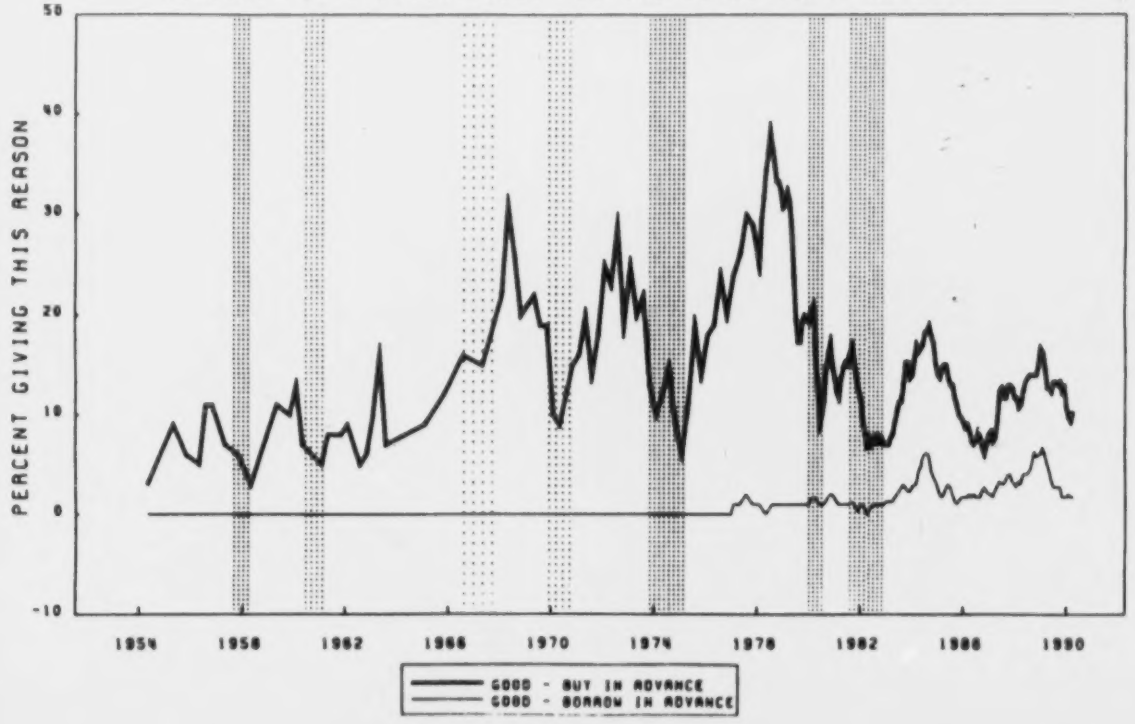


TABLE 26

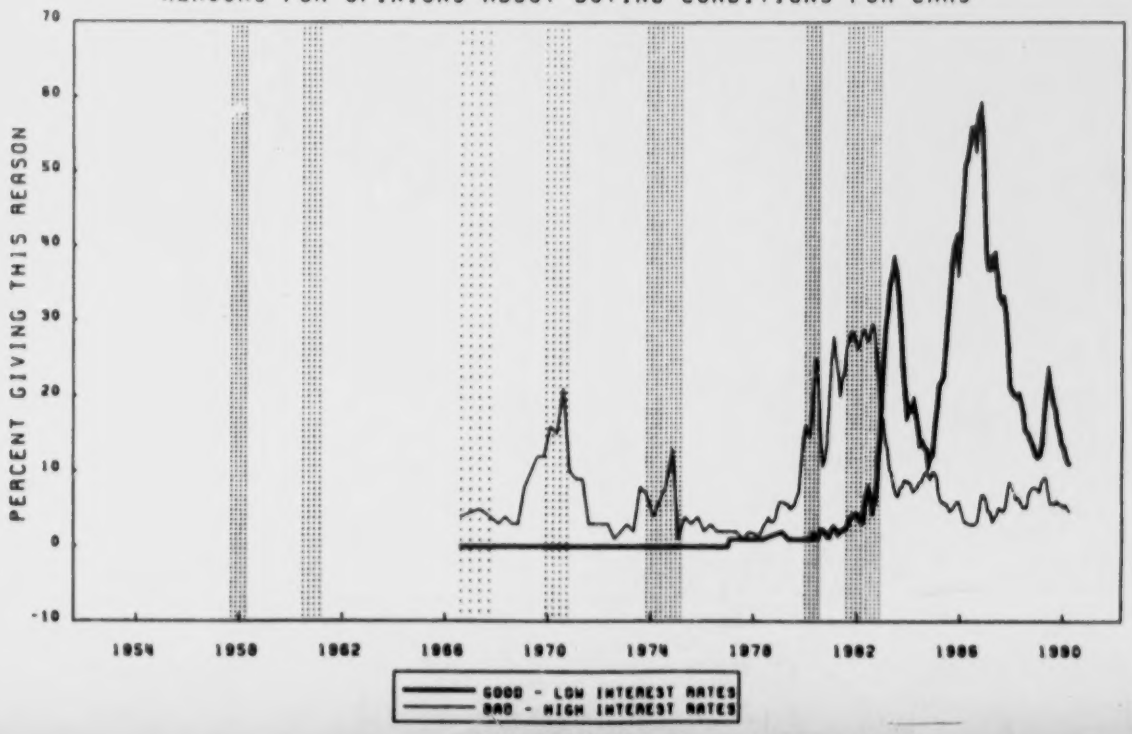
SELECTED REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS +

	Apr. 1989	May 1989	June 1989	July 1989	Aug. 1989	Sept 1989	Oct. 1989	Nov. 1989	Dec. 1989	Jan. 1990	Feb. 1990	Mar. 1990	Apr. 1990
GOOD TIME TO BUY:													
Prices are low; good buys available	32%	29%	33%	32%	35%	32%	36%	41%	38%	48%	48%	48%	45%
Prices won't come down; are going higher	12	14	11	15	14	10	16	11	11	10	8	10	13
Interest rates are low	25	23	21	19	18	18	13	15	13	12	11	11	11
Borrow-in-advance of rising interest rates	4	4	2	2	4	2	2	1	2	2	2	1	2
Times are good; prosperity	3	3	2	3	2	4	3	2	1	2	2	2	2
BAD TIME TO BUY:													
Prices are high	16	16	18	18	22	19	18	23	21	17	22	21	18
Interest rates are high; credit is tight	9	6	7	4	7	6	6	5	6	5	6	4	4
Times are bad; can't afford to buy	3	4	3	2	2	5	4	4	4	2	4	4	4
Bad times ahead; uncertain future	3	2	1	1	2	1	2	1	1	2	2	2	2
Poor selection; quality	2	3	2	3	2	3	2	3	4	3	3	4	2

Responses to the query: "Why do you say so?" following the question on Table 25.
+ : May add to more than 100% due to multiple mentions.

CHART 26 - HISTORICAL SERIES

REASONS FOR OPINIONS ABOUT BUYING CONDITIONS FOR CARS



EXPLANATORY CHARTS

CHART 1 - RECENT CHANGES

THE INDEX OF CONSUMER SENTIMENT

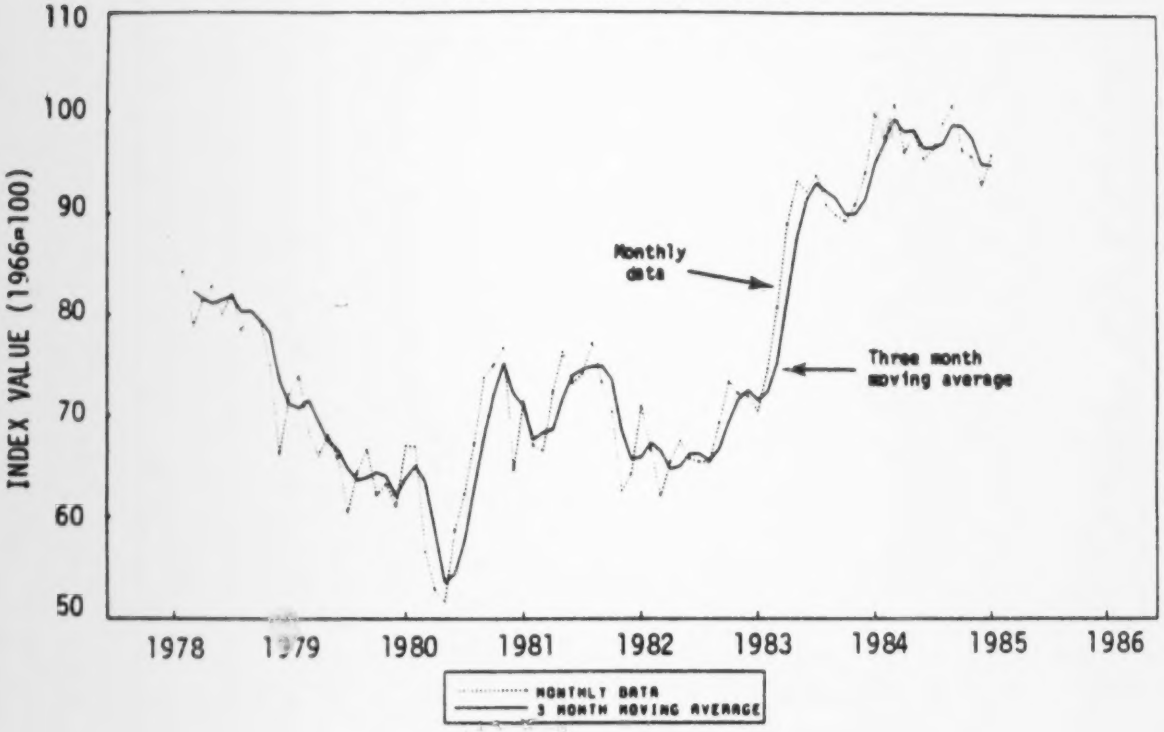
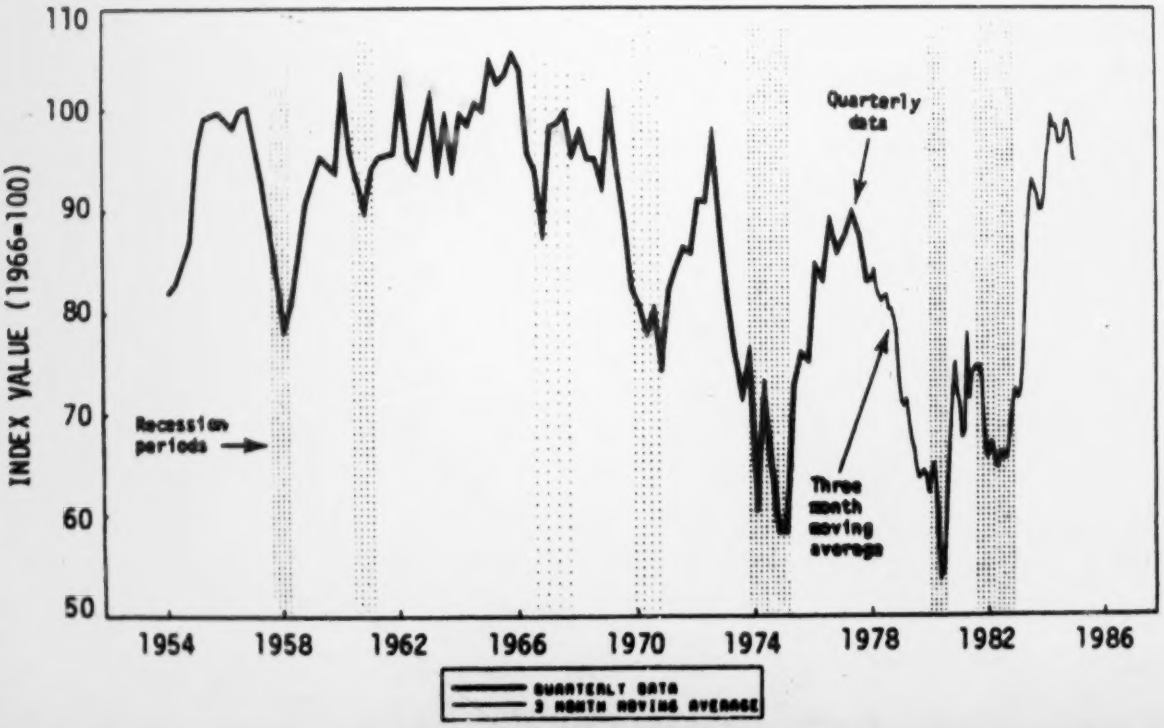


CHART 1 - HISTORICAL SERIES

THE INDEX OF CONSUMER SENTIMENT



DESCRIPTION OF CHARTS

DATA POINTS

QUARTERLY DATA: Data collected by surveys conducted at three month intervals before 1978.

MONTHLY DATA: Data collected by surveys conducted each month since January of 1978.

THREE-MONTH MOVING AVERAGE: Each point plotted represents the average of the three monthly observations ending at the date plotted.

TIME SCALE

Each tic mark on the time scale represents the month of January for the indicated year.

RECESSION PERIODS

November	1948 - October	1949
July	1953 - May	1954
August	1957 - April	1958
April	1960 - February	1961
June	1966 - November	1967*
December	1969 - November	1970
November	1973 - March	1975
January	1980 - July	1980
July	1981 - November	1982

Recession dates are determined by the National Bureau of Economic Research.

RECESSION PERIOD: Reduction in the national output of goods and services, generally lasting at least two quarters

*GROWTH RECESSION: Retardation in the rate of growth of output and employment (usually followed by a recession and always the initial stage of a recession).

RECOMMENDED ALLOWANCE FOR SAMPLING ERROR OF A PERCENTAGE

(Sampling Error Allowance in Percentage Points[1])

For Estimated Percentage Near	Number of Interviews											
	100	200	300	400	500	750	1000	1250	1500	2000	2500	3000
1% or 99%	2.2	1.6	1.3	1.1	1.0	0.8	0.7	0.6	0.6	0.5	0.4	0.4
5% or 95%	4.9	3.5	2.8	2.4	2.2	1.8	1.5	1.4	1.3	1.1	1.0	0.9
10% or 90%	6.7	4.8	3.9	3.4	3.0	2.4	2.1	1.9	1.7	1.5	1.3	1.2
20% or 80%	9.0	6.3	5.2	4.5	4.0	3.3	2.8	2.5	2.3	2.0	1.8	1.6
30% or 70%	10.3	7.3	5.9	5.1	4.6	3.7	3.2	2.9	2.6	2.3	2.0	1.9
40% or 60%	11.0	7.8	6.3	5.5	4.9	4.0	3.5	3.1	2.8	2.4	2.2	2.0
50%	11.2	7.9	6.5	5.6	5.0	4.1	3.5	3.2	2.9	2.5	2.2	2.0

[1]The figures in this table represent two standard errors. Hence, the chances are 95 in 100 that the true percentage lies within a range equal to the observed percentage, plus or minus the sampling error.

RECOMMENDED ALLOWANCE FOR SAMPLING ERROR OF A PERCENTAGE

(Sampling Error Allowance in Percentage Points[1])

For Estimated Percentage Near	Number of Interviews											
	100	200	300	400	500	750	1000	1250	1500	2000	2500	3000
1% or 99%	2.2	1.6	1.3	1.1	1.0	0.8	0.7	0.6	0.6	0.5	0.4	0.4
5% or 95%	4.9	3.5	2.8	2.4	2.2	1.8	1.5	1.4	1.3	1.1	1.0	0.9
10% or 90%	6.7	4.8	3.9	3.4	3.0	2.4	2.1	1.9	1.7	1.5	1.3	1.2
20% or 80%	9.0	6.3	5.2	4.5	4.0	3.3	2.8	2.5	2.3	2.0	1.8	1.6
30% or 70%	10.3	7.3	5.9	5.1	4.6	3.7	3.2	2.9	2.6	2.3	2.0	1.9
40% or 60%	11.0	7.8	6.3	5.5	4.9	4.0	3.5	3.1	2.8	2.4	2.2	2.0
50%	11.2	7.9	6.5	5.6	5.0	4.1	3.5	3.2	2.9	2.5	2.2	2.0

[1]The figures in this table represent two standard errors. Hence, the chances are 95 in 100 that the true percentage lies within a range equal to the observed percentage, plus or minus the sampling error.